10

15

20

# SYSTEM AND METHOD FOR ADMINISTERING A FINANCIAL PROGRAM INVOLVING THE COLLECTION OF PAYMENTS

#### CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims the benefit of U.S. Provisional Application No. 60/224,234, filed on August 10, 2000, which is incorporated by reference herein in its entirety.

### BACKGROUND OF THE INVENTION

The present invention generally relates to a system and method for administering a financial program involving the collection of payments. In a more particular embodiment, the present invention relates to a system and method for administering an insurance program involving the collection of payments pertaining to life insurance policies.

Financial programs commonly require the processing of a large amount of information on a periodic basis. A typical insurance program, for instance, involves the periodic collection and processing of premium payments from its customers. Hence, it is not surprising that the financial fields have traditionally relied heavily on the use of computers to automate these tasks. For instance, computer technology has been frequently used in the financial fields since at least the 1970's.

Many financial programs provide services to customers over an extended period of time. For instance, brokerage systems and banking-related systems are expected to provide uninterrupted service to their customers for as long as the customers choose to receive the services, which may extend over decades. This is also particularly true of life insurance programs. A life insurance program is expected to provide uninterrupted and reliable service to a customer from the issuance of a policy to the customer to the policy's termination (e.g., at the customer's death). The period of service in this case may extend over a significant portion of the customer's life.

Ţ

10

15

20

25

30

The relatively long commitment associated with insurance programs may result in the use of out-of-date computer equipment to implement the programs. For instance, some financial providers may be reticent to makes changes to their existing systems due to the perceived difficulty in transferring control from an "old system" that interacts with an "old database," to a "new system" that interacts with a "new database." Such a transfer must be performed without jeopardizing the integrity of stored data, and without interrupting the continuum of services provided to the customers. It is not always clear how to make the transition from an old system to a new system, while satisfying the above quality-of-service constraints.

More specifically, as appreciated by the present inventors, it would be desirable to convert data obtained from a prior system in a manner that does not require continued access to the prior system. This is because the prior system may maintain the data using an execution platform that differs from the new system, making data transfer problematic. The difficulty in data transfer may further be compounded by the fact that such data may be stored in the prior system in multiple and/or complexly-structured data files. At the same time, as appreciated by the present inventors, it would be desirable to maintain some flexibility in converting data from the prior system to the new system. For instance, systems that have been in existence for many years may suffer from corrupted data, missing (lost) data, and/or corrupted or lost program code. As appreciated by the present inventors, these anomalies may render it difficult to transfer data and logic to a new system as a onetime effort. Rather, a system designer may find it desirable to change the methodology of data conversion as work on the new system proceeds (thus making flexibility in data transfer a useful feature). There is no indication in the known prior art of how to address these problems. Indeed, there is no indication that others had the insight to even articulate the problems in the manner stated above.

Still other providers may be unwilling to make changes to their systems because of insufficient interest in the programs. For instance, a provider may be contractually obligated to maintain services for a group of existing subscribers, but may have otherwise turned his attention to other commercial endeavors (which may

10

15

20

25

be regarded as more profitable). Such a provider may have insufficient incentive to modify a system that is functional, but is not operating at satisfactory efficiency.

For the above-stated reasons, some providers may administer financial programs using sub-optimal technical platforms for extended periods of time, such as sub-optimal mainframe-based technology. This may prevent the providers from operating their programs at satisfactory levels of efficiency. Further, the use of out-dated technical platforms may result in errors caused by program-related and hardware "glitches." The end of the millennium may present yet another time-based source of errors for these systems.

It is possible to upgrade existing systems in piecemeal fashion by changing selected tables in a computer system's database, adding additional processing capacity, adding enhanced network accessibility, etc. However, if not designed carefully, such piecemeal improvements may result in compatibility problems between the existing systems and the new components.

Even those financial providers that make a commitment to fully upgrade their technical platforms may not produce a satisfactory system. For instance, some forms of life insurance programs require frequent processing of payments from customers. For instance, systems known as "debit" insurance programs or "industrial insurance" programs require collection of life insurance premium information on a relatively frequently basis, such as on a weekly or monthly (or some other relatively short period of time). This feature may introduce a heavy load on the insurance-providing system, and may also place a significant burden on the personnel who must interact with the system to process the payments and to perform maintenance on the policies. A technical solution that does not adequately address the unique features of these "frequent-collection" services is apt to provide a system that is inefficient, error-prone, and/or cumbersome to use. Such factors may ultimately result in the reduced profitability of the insurance program.

The patent literature includes several examples of the use of computer technology in the financial fields. An exemplary collection of insurance-related

10

15

20

25

patents include: U.S. Patent No. 5,429,506 (Method and System for Processing Federally Insured Annuity and Life Insurance Investments); U.S. Patent No. 5,479,344 (Insurance Computation Display); U.S. Patent No. 5,631,828 (Life Insurance Method, and System); U.S. Patent No. 5,752,236 (Method of Computerized Administration of a Life Insurance Plan Using Computerized Administration Supervisory System); and U.S. Patent No. 6,041,304 (System and Method for Controlling the Cash Value Growth of an Insurance policy).

However, there is no indication that the systems described in these patents will provide a fully sufficient solution to the above-identified problems. More specifically, there is no indication that these systems provide a fully satisfactory means for transitioning from an "existing system" to a "new system." There is also no indication that these systems provide a fully satisfactory means for administering some of the unique types of insurance programs described above, such as policies that require the collection of payments on a relatively frequent basis.

There is accordingly a need for a more efficient system and method for administering an insurance program

#### SUMMARY OF THE INVENTION

The present invention addresses the above-identified needs, as well as additional unspecified needs.

One exemplary aspect of the invention pertains to a system for administering a financial program involving the collection of payments. The system includes a debit system for coordinating the administration of the financial program, which, in turn, includes interface logic for allowing a user to interact with the debit system, and batch processing logic for performing batch processing associated with the financial program. The system further includes at least one support system coupled to the debit system for handling an aspect of the administration of the financial program, and for communicating with the debit system. The system further includes a data storage for storing data tables used by the debit system in the administration of the financial

10

15

20

program. The data storage also includes a representation of information as maintained by a retired system previously used for administering the financial program.

In another exemplary aspect of the invention, the interface logic includes at least one of: interface logic for performing basic policy maintenance; interface logic for administering billing and premium payment; interface logic for performing waiver processing; interface logic for performing loan processing; interface logic for performing cash surrender value processing; interface logic for performing extended value processing; interface logic for performing system-related maintenance; and interface logic for accessing the representation of information as maintained by the retired system.

In another exemplary aspect of the invention, the financial program involves the performance of plural processing routines to handle different aspects of the financial program, and the system includes functionality that facilitates interaction between these different processing routines.

In a preferred embodiment, the financial program is an insurance program. In a further preferred embodiment, the insurance program includes payment due dates occurring weekly or monthly.

# BRIEF DESCRIPTION OF THE DRAWINGS

Other features of the present invention will be apparent from consideration of the following Detailed Description, in conjunction with the accompanying drawings, in which:

- FIG. 1 shows an exemplary system for implementing the present invention;
- FIG. 2 shows an exemplary insurance processing system for use in the system of FIG. 1;
  - FIG. 3 shows an exemplary workstation for use in the system of FIG. 1;

10

15

20

- FIG. 4 shows an exemplary premium processing routine according to the present invention;
- FIG. 5 shows an exemplary loan processing routine according to the present invention:
- FIG. 6 shows an exemplary waiver processing routine according to the present invention:
  - FIG. 7 shows an exemplary cash surrender processing routine according to the present invention;
- FIG. 8 shows an exemplary extended values processing routine according to the present invention;
- FIG. 9 shows an exemplary death claims processing routine according to the present invention;
- FIG. 10 shows an exemplary maturity processing routine according to the present invention;
- FIGS. 11-16 show exemplary screens for use in performing basic policy maintenance:
- FIGS. 17-22 show exemplary screens for use in performing premium billing and payment processing;
  - FIG. 23 shows an exemplary screen for performing waiver processing;
  - FIGS. 24-28 show exemplary screens for performing loan processing;
- FIGS. 29-33 show exemplary screens for performing cash surrender value (CSV) processing;
- FIGS. 34-36 show exemplary screens for performing extended term insurance processing;

10

15

20

25

FIGS. 37-41 show exemplary screens for displaying and modifying system parameters;

FIG. 42 shows an exemplary screen for generating an actuarial extract file; and

FIG. 43 shows an exemplary screen for examining an error log.

#### DETAILED DESCRIPTION OF THE INVENTION

The system and method described herein are applicable to the administration of insurance policies generally characterized by relatively frequent payments (e.g., weekly, monthly, or some other interval) and relatively low benefits. This type of insurance is commonly referred to as "industrial insurance," "monthly debit ordinary (MDO) insurance," "weekly premium (WP) insurance," or "home service distribution insurance." Traditionally, these programs were also characterized by their use of an agent to personally visit the policyholders on a periodic basis to collect the premiums. In current manifestations, however, the policyholders may often forward their payments to the insurance provider using other arrangements (such as by mail, or by authorizing the automatic withdrawal of funds from banks accounts). A "premium" refers to the amount which must be contractually paid on a periodic basis to keep the policy in force.

However, the system and method described herein are also applicable to other types of financial programs. For instance, the system and method are applicable to the administration of other types of insurance policies, as well as the administration of various loan programs, etc.

By way of overview, section No. 1 of this application describes the architecture of an exemplary system for implementing the present invention. Section No. 2 describes various process flows used in the present invention, along with associated batch processing, screen presentations, etc. And section No. 3 provides a series of tables describing a specific exemplary implementation of the present invention. Section No. 3 also includes a glossary (in Table VI) for defining selected terms used in section Nos. I and 2.

10

15

20

25

### 1. System Architecture (FIGS. 1-3)

FIG. 1 shows an overview of a system 100 for implementing the present invention. The system 100 features an insurance processing system 102 which administers the insurance program (and which is described in further detail in connection with FIG. 2). The insurance processing system 102 is directly connected to one or more workstations (such as workstations 104, 106 and 108) (which are described in further detail in connection with FIG. 3). One or more other workstations (such as workstations 118 and 120) may be connected to the insurance processing system 102 via a local network 116, such as a corporate intranet or like network. The workstations serve as "portals" for interacting with the insurance processing system 102. Namely, users may use the workstations to enter information into the insurance processing system 102 and to retrieve information from the insurance processing system 102.

The insurance processing system 102 may represent a "replacement" of a prior system (or systems) 114, now retired. The previous system(s) 114 represent technical platforms (and associated databases) that were previously used by an organization to administer the insurance program (e.g., before introduction of the insurance processing system 102). For instance, the previous system(s) 114 may represent one or more mainframe systems that were used to implement the insurance program. On the other hand, the insurance processing system 102 may represent a server-type technical platform (e.g., in the context of a client-server architecture), or some other updated architecture.

The insurance processing system 102 includes a data storage 109 that contains information pertaining to insurance policies using multiple tables. Such information may include policy data that was extracted from the retired system(s) 114 on a specified conversion date (or dates) and converted to a format that is compatible with the insurance processing system 102 (and may thus be referred to as "converted data"). For example, in one embodiment, only policies that retained value as of the date of conversion were converted and transferred from the previous system(s) 114 to the

10

15

20

25

insurance processing system 102. That is, in one embodiment, policies that, at the time of conversion, were surrendered, matured, expired, etc., were not converted.

That is, the insurance processing system may also include a representation (or "mirror") 115 of the retired system 114. This representation 115 may include a database that stores information that specifies the values of the data fields in all of the policies as they existed when the prior system 114 was converted to the new system (i.e., the insurance processing system 102). Such a database may reflect the data structure used in the prior system 114. In the illustrated embodiment, the representation 115 of the retired system 114 is shown as part of the data storage 109. In other embodiments, the representation 115 may be implemented as a separate storage module. In a further alternative embodiment, the representation 115 of the retired system 114 may also include interface logic for converting such data values into a format that is compatible with the insurance processing system 102.

By virtue of this unique configuration, the insurance processing system 102 may access its data storage 109 to retrieve converted records in the course of normal policy processing. In addition, if need be, the insurance processing system 102 may also extract data from the representation 115. For instance, the insurance processing system 102 may find it needful or useful to access information regarding policies that were not properly transferred and/or properly converted to the table structure of the new system 102 on the conversion date. Additional details regarding the interaction between the insurance processing system 102 and the "mirror" 115 of the retired system are provided in latter sections of this document.

The insurance processing system 102 may also interact with one or more financial institutions (such as financial institutions 110 and 112). For instance financial institution 110 may comprise a bank used for forwarding notifications of premium payments to the insurance processing system 102. Financial institution 112 may comprise a bank used for forwarding notifications of loan payments to the insurance processing system (in the case where a policy holder has qualified for a loan based on the cash surrender value of his or her insurance policy). These transfers may

10

15

20

25

be performed via electronic communication, or by some other means. More specifically, in one embodiment, policyholders may send their payments to a bank accompanied by a billing "stub" that identifies the billing account to which the payment should be applied. The bank then notifies the insurance company (e.g., system 102) on a daily basis that the payments have been received. This processing is referred to as "batch payment processing."

Further, the insurance processing system 102 may optionally be coupled to a wide-area network 122, such as the Internet. Such a connection may allow remote users to gain access to the insurance processing system 102, e.g., via workstations 124 and 126. Such a connection may also allow the insurance processing system 102 to interact with various remote resources, e.g., as implemented by one or more remote servers (such as server 128).

Finally, a firewall 140 may be used to protect the integrity of data maintained by the insurance processing system 102. More specifically, in one embodiment, equipment located above the firewall 140 may be associated with an organization that administers the insurance program, while equipment located below the firewall 140 may be associated with external entities that do not have a direct role in administering the program. The firewall 140 includes conventional functionality that prevents those outside the administering organization from gaining access to confidential information maintained by the insurance processing system 102 (and may also prevent those within the organization from inadvertently divulging confidential information to parties outside the organization).

FIG. 2 shows an exemplary implementation of the insurance processing system 102. The insurance processing system 102 includes a debit system 202 which serves as the primary "engine" for administering the insurance program. The debit system 202 is connected to a communication interface 203, the data storage 109, and various insurance processing systems (such as systems 212, 214, 216 and 218), also referred to as "support systems." These insurance processing systems (e.g., 212, 214, 216 and 218) are "external" to the debit system 202 in the sense that they exist independently

10

15

20

25

from this system (and from each other), but these systems may readily interact with the debit system 202 (and with each other). The communication interface 203 is used for interacting with the entities described above in connection with FIG. 1 (such as workstations, intranets, financial institutions, etc.). The data storage 109 stores various data tables used by the debit system in performing its ascribed insurance processing functions. For example, the data storage may store the data tables identified in Table I of section No. 3 below. The data storage 109 may also store the "mirror" 115 of the prior system 114.

The various external systems (212, 214, 216, 218) handle different aspects of the insurance program. For instance, the death claims system 212 administers the processing and disposition of claims pertaining to the death of a policy-holder. More precisely, a "death claim" refers to a request for payment under the terms of an insurance policy upon the death of the insured.

The matured endowment system 214 administers the processing and disposition of claims pertaining to a matured endowment. A policy "matures" when it reaches the date on which the cash value of the policy equals the face amount of the insurance paid by the policy. A "matured endowment" refers to an insurance policy where the cash value has become equal to the face amount of the insurance paid by the policy (and the insured is still living).

The waiver of premium system 216 handles aspects of the insurance program pertaining to the waiver of premiums. "Waiver processing" refers to processing carried out when insurance premiums are waived because the insured has become disabled and the policy carries a disability rider. (A "rider" generally refers to additional or "secondary" coverage under an insurance policy). After a policy has gone into premium-waiver status (i.e., "WAIV" status), the premiums are in essence paid by the insurance company. If the insured does not remain disabled indefinitely, the policy may resume its premium-paying status.

The debit system 202 may also communicate and interact with various other systems 218, which may handle other aspects of the insurance program.

10

15

20

2.5

30

The debit system 202 itself may include various functional modules for performing its ascribed functions. For instance, the debit system 202 includes interface logic 204 for providing various interface screens (e.g., shown in FIGS. 11-43) for use by workstation users in interacting with the insurance processing system 102. More specifically, the interface screens comprise Graphical User Interface (GUI) pages used to interact with records stored in data storage 109. The debit system 202 may also include batch processing logic 206 for performing various processing and reporting on a batch-related basis (e.g., as exemplified by the processing and reporting identified in Tables II and III below). More specifically, "batch processing" refers to the computer-processing of information extracted from a database, carried out on a relatively large scale basis. Such processing is often performed during nighttime hours when users are not online using the system 102.

The interface logic 204 and batch processing logic 206 further incorporate interaction functionality which permits different aspects of the system 102 to communicate with each other. For instance, aspects of the system 102 which handle loan processing should be able to interact with aspects of the system 102 which handle cash surrender value processing (since coverage will cease if a loan balance exceeds cash surrender value). Further, for example, aspects of the system 102 which handle premium billing and payment processing should be able to interact with aspects of the system 102 which handle policy maintenance processing (since premiums will change if coverage changes). Thus, in general terms, the system 102 may be said to involve the performance of plural processing routines to handle different aspects of a financial program, and the system includes functionality that facilitates interaction between these different processing routines.

Further, the debit system 202 may include other processing logic 208 for handling other aspects of its ascribed functions, such as logic for generating on-line reports, logic for interacting with the various external support system (such as the death claims system 212 and the matured endowment system 214), etc. The logic (204, 206, 208, etc.) may be implemented as machine code which performs various functions when executed by a processor. The "output" of the debit processing system

10

15

20

25

includes, in part, interface screen presentations supplied via the communication interface 203, and various hard-copy reports and on-line reports (generically represented as reports 222).

The insurance processing system 102 may be implemented using various architectures. For instance, the system 102 may be implemented as a server computer unit (in the context of a client-server architectural environment). For example, the system 102 may include a server computer having conventional components (e.g., processor, memory, cache, interface means, etc.) running the Microsoft Windows™ NT™, Windows™ 2000, Unix, Linux, Xenix, IBM ADX™, Hewlett-Packard UX™, Novell Netware™, Sun Microsystems Solaris™, OS/2™, BeOS™, Mach, Apache, OpenStep™ or other operating system or platform. In one embodiment, the system 102 may comprise a single computer. Alternatively, the system 102 may comprise multiple computers connected together in a distributed fashion, each of which may implement/administer a separate aspect of the insurance program. The equipment associated with the system 102 may be located at a central facility, or, in an alternative embodiment, may be distributed over plural facilities.

In one embodiment, a single computer (e.g., a single server-type computer) may implement the debit system 102 and the various related external support systems, such as the death claims system 212, the matured endowment system 214, the waiver of premium system 216, etc. In another embodiment, separate computers may be used to implement each of the above-identified systems. Those skilled in the art will appreciate that still other allocations of processing functionality are possible to suit the demands of different applications.

The data storage 109 may comprise a single data storage unit or multiple units connected together in a distributed fashion. The data storage 109 may be implemented using an Oracle<sup>TM</sup> relational database sold commercially by Oracle Corp. Other databases, such as Informix<sup>TM</sup>, DB2 (Database 2), Sybase or other data storage or query formats, platforms or resources such as OLAP (On Line Analytical Processing), SQL (Standard Query Language), a storage area network (SAN),

10

15

20

25

Microsoft Access<sup>TM</sup> or others may also be used. The data storage 109 may physically store its data using any type of storage medium, such as any type of magnetic disk or tane, any type of optical media, etc.

As described above, the data storage 109 includes converted data records representing information converted from the retired system 114 on the conversion date(s), as well as the representation 115 of unconverted information as maintained in the retired system 114 on the conversion date. The converted data may reflect the data structure used by the updated system 102 (e.g., as reflected by the data tables that appear in Table I of section No. 3 below), while the representation 115 may reflect the retired system's 114 data structure. The preservation of the "old" data in this fashion is an efficient and powerful mechanism for transitioning from the old system 114 to the new system 102.

FIG. 3 shows an exemplary workstation for interacting with the system 100 of FIG. 1. The workstation represents any type of general or special purpose computer comprising conventional hardware. Namely, the work station includes a processor 314 connected, via bus 310, to a Random Access Memory (RAM) 304, Read Only Memory (ROM) 306, and storage device 308 (hard drive, CDROM, optical disc, etc.). The work station further includes an interface unit 302, which, in turn, includes one or more devices 318 for inputting information (such as a keyboard, mouse-type input device, touch screen or panel, etc.), and one or more devices 316 for rendering information (including a display, printer, etc.). In one exemplary embodiment, the interface unit 302 presents the screens identified in FIGS. 11-43. The workstation also includes a communication interface device 312 (such as a modem, etc.) for interacting with external equipment (such as the insurance processing system 102, or intranet 116). The computer may operate using any one of a variety of operating programs, such as the Microsoft Windows<sup>TM</sup> 98 program.

# 2. Process Flow and Related Features (FIGS. 4-43)

The process flow used in administering the insurance program may be divided into the following categories: premium billing and payment processing; loan

10

15

20

25

processing; waiver of premium processing; cash surrender processing; extended value processing; death claims processing; maturity processing; and miscellaneous system-related maintenance.

By way of overview, premium billing and payment processing refers to printing and mailing billing statements, and then applying payments that are received (e.g., crediting the payments to particular policies), as well as related processing tasks. In connection therewith, a "premium" refers to a minimum amount which must be paid on a periodic basis (as contractually agreed) to keep the policy in force.

Loan processing refers to various tasks associated with establishing and administering loans, such as setting up a loan on a policy, charging annual interest, billing annual interest, recording payments against principal or interest, collection and processing of minimum interest payments (when outstanding interest becomes greater than the policy value), etc.

Waiver of premium processing pertains to various tasks performed when a waiver is placed on a policyholder's policy (such as when the policyholder becomes disabled).

Cash surrender processing pertains to various task performed in connection with the conversion of a policy to its cash value equivalent, thereby terminating the policy. More specifically, the cash value of a policy refers to the amount of money at any given time during the life of a policy that the policyholder will receive if he or she cancels the coverage and surrenders it to the insurance company. A policyholder surrenders a policy for cash by stopping premium payments on the policy, and requesting the cash surrender non-forfeiture option, thereby receiving payment of the cash value of the policy.

Extended term insurance refers to a non-forfeiture option associated with a policy whereby the net cash value of the policy is applied as a single net premium to purchase term insurance. Extended value processing refers to various processing performed (e.g., computation of cash surrender value, etc.) in order to lapse a policy to

10

15

20

25

extended term status.

Death claim processing refers to various tasks performed when a death claim is filed on a policy. A "death" claim refers to a request for payment under the terms of an insurance policy upon the death of the insured.

Maturity processing refers to various tasks performed when an insurance policy reaches maturity. A policy matures when it reaches the date on which the cash value of the policy equals the face amount of insurance paid by the policy.

The miscellaneous system-related maintenance processing refers to various administrative tasks, such as the review of error logs, generation of an extract file, etc.

# 2(a) Premium Processing (FIG. 4)

2(a-i) Overview

FIG. 4 shows an exemplary routine for performing premium processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview, the process includes an initial step 402 of sending out information to the customer, e.g., via the mail service or via electronic transmission. This step may specifically entail sending out a Monthly Debit Ordinary (MDO) coupon book (in substep 404). This coupon book conventionally contains a series of statements that identifies the payments required for a series of premium due-date intervals (e.g., for a series of months within a year). This step may further include sending out a premium-due reminder notice for a Weekly Premium (WP) policy (in substep 408). This step may further include sending out new billing account notices (in substep 410).

In step 412, the system 100 determines whether a payment has been received by the appropriate due date. If not, in step 414, the system 100 sends out a lapse notice. In step 416, after a prescribed period of days (e.g., 90 days), the system converts the policy to extended term status. Alternatively, if a payment is received, the system 100 applies the payment to the respective policy account (in step 418). Then, in step 420, the system 100 performs appropriate post-payment processing.

10

15

20

25

This processing may include sending out payment-received acknowledgment letters that serve also as billing statements (in substep 422), updating the policy status (in substep 424), and generating a refund if required (in substep 426).

### 2(a-ii) Premium Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_PAYMENT\_PKG routine processes notification of payments sent by financial institutions (e.g., banks). More specifically, this routine detects matching and non-matching payments. (A matching payment refers to a payment having a dollar amount that matches a multiple of the policy's modal premium.) This routine also creates payment transactions for the matching payments and "holding" transactions for the non-matching payments, as appropriate. A holding transaction refers to a transaction that records a payment against a particular policy or account but does not "apply" the payment because the payment amount does not match a billed amount and therefore it is not yet known how the payor intended the payment to be applied. Holding transactions may be applied via online entry when the desired distribution of funds has been determined. This routine also produces a premium payments listing, generates acknowledgement letters for matching payments, and, if a payment takes a policy to its "paid up date" (i.e., captured by the PAID UP DATE variable), performs appropriate close-out processing. (The "paid up date" refers to the calendar date as of which all premium payments contractually agreed to under the terms of a policy will have been paid.)

A DB\_LAPSE\_PPAY routine identifies the premium paying policies having a PAID\_TO\_DATE field that is 90 days or more in the past, where the account status is active, "A." On finding such a billing account, this routine determines if there are still policies attached to it having a "PPAY" (premium-paying) status. (The PPAY status indictes that a policy is in force and requires additional premium payments to remain in force, because it is not yet paid up.) If so, this billing account and its policies are lapsed (that is, converted to extended term status).

10

15

20

25

The system may generate various premium-related batch reports, such as an acknowledgement letter for payment, notice of policies with lapse pending in the next calendar month, notice of lapsed MDO premium due, notice of lapsed weekly premium due, notice of policies lapsed for non-payment of premium, notice of policies not premium-paid for 31 days, notice of minimum interest due on a loan for premium paying policies, WP reminder notice, etc.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

2(a-iii) Premium Processing and Related Maintenance Interface Screens

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure, and/or for performing maintenance processing associated with the policies. For instance, a Policy Data Screen (FIG. 11) pulls up policy details in response to input of a policy number. The "UPDATE INSURED NAME" and "UPDATE BENEFICIARY NAME" buttons on the screen allow the user to modify the beneficiary and insured names, respectively. Further, it is possible to enter an entirely new policy onto the system by clicking the "RESTORE LOST POLICY" button. This allows the user to add policies that were somehow lost on the old system 114 and therefore were not transferred to the new system 102. Thus, although the business entity currently using this system may no longer be selling new policies, the system 102 itself contains the functionality necessary to accept new policies in the event that it were to be used by a business entity that desired such functionality.

A Policy Coverage Screen (FIG. 12) allows the user to add or modify coverage record details for a policy in response to input of a policy number. This screen maintains base coverage plus riders and benefits. The "base" coverage of a policy refers to insurance provided to a "primary" party identified in the policy. The "benefit" associated with a policy refers to an amount of money to be contractually paid under the policy when certain events occur, such as the death of the insured. As noted above, a "rider" refers to additional or "secondary" coverage under an insurance

policy.

5

10

15

20

2.5

A Policy Status Screen (FIG. 13) retrieves the status of a policy for various date ranges. Further, the user can query on an existing policy number to retrieve status information pertaining to the policy. Further, the "GENERATE REFUND" button allows the user to generate a premium refund for policies that have become paid up, if appropriate. The "REVERSE REFUND" button allows the user to reverse the refund operation. Generally, a refund is appropriate when excess payments have been received for some reason.

A Policy Summary Screen (FIG. 14) provides summary details for a policy in response to the input of a valid policy number. In one embodiment, this screen does not permit users to modify the data presented on the screen. Assistance personnel employed by the insurance organization may use this screen to answer questions posed by policyholders who contact the personnel via telephone, or other communication means.

A Policies Not Converted Screen (FIG. 15) presents information that represents (or "mirrors") data once stored on the prior system 114, and is now maintained in the mirror system 115. Hence, in one embodiment, this screen may be used to retrieve all of the information that was maintained on the prior system 114 at the time of conversion. This feature reduces the risk of losing data in the conversion process.

A Policy Maturity Year Screen (FIG. 16) allows a user to make corrections to maturity dates for policies. More specifically, this screen lists policies having blank (i.e., unspecified) maturity dates because the data was lost on the previous system. Users may query on "Maturity Year," "Policy Begin," or "Policy End." A user may view the maturity dates corrected by a particular user by querying on user ID and placing a check in the "Corrected Maturity Dates" checkbox. This feature is an example of the new system's facilitated ability to make corrections to data that was corrupted as maintained in the prior system 114.

10

15

20

25

A Premium Billing Account Screen (FIGS. 17 and 18) presents billing account details in response to input of Account number, Account status, Paid to Date, Discount Code, or Policy Type (e.g., WP, MDO). This screen enables the user to add or remove policies for a billing account. Further, this screen enables a user to add a new billing account.

A Billing Account Policy Association Screen (FIG. 19) shows the association between a premium billing account and its policies. The screen enables users to query on either policy number, billing account number, or both. Further, this screen allows users to add policies or remove policies associated with a particular billing account.

A Billing Account Transaction Screen (FIG. 20) permits the user to fetch premium billing account transaction details, as well as enter new payment transactions, by entering a valid billing account number. When the user enters the "Amount Received" and invokes the "APPLY PAYMENT" button, the system calculates the number of modal premiums paid, and adjusts the paid to date on the policy to reflect the payment.

A Policy Modal Premium Information Screen (FIG. 21) retrieves modal premiums for policies in a specified date range. The screen allows a user to query on an existing policy number and then add a new modal premium (when premiums change because of changes in coverage), as well as its start date.

A Premium Refund Information Screen (FIG. 22) allows a user to view and make premium refunds. In operation, the screen enables a user to query on a policy number and then generate a refund or reverse a refund by pressing the "GENERATE REFUND" and "REVERSE REFUND" buttons, respectively.

### 2(b) Loan Processing (FIG. 5)

### 2(b-i) Overview

FIG. 5 shows an exemplary routine for performing loan processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview,

10

15

20

25

the process includes an initial step 502 of providing a quote to the customer, and subsequently processing the customer's application for insurance coverage. Then, in step 504, the process entails sending out notices/statements to the customer, e.g., via the mail service or via electronic transmission. This step may specifically entail sending out an interest due billing statement (in substep 506). This step may further include sending a minimum interest due notice when total loan balance exceeds policy value (in substep 510).

In step 512, the system 100 determines whether payment has been received by the appropriate due date. In step 514, if minimum interest is due and payment has not been received after the due date, the system 100 lapses the policy. Alternatively, in step 516, if a payment is received, the system 100 automatically or manually applies the payment as principal or interest to the customer's accounts. Then, in step 518, the system 100 performs appropriate post-payment processing. This processing may include sending out payoff letters if a loan is paid off (in step 520), generating a refund if required, and crediting the account with unearned interest (since interest is charged in advance) (in substep 522).

# 2(b-ii). Loan Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_LOAN\_PKG program processes batch payment notices coming from the bank(s) and inserts into the appropriate data storage table(s) indications of matching (payment equals interest due) and non-matching payments. More specifically, this routine: (1) sorts bank batch files containing premium and loan payments for the debit system; (2) combines the batch information with detail records; (3) detects matching and non-matching payments; (4) creates payment transaction records and updates minimum interest transaction records (MININT) to record payments as appropriate; and (5) produces a loan interest payment collection report. Non-matching payments are "held" in storage until a user determines the desired distribution of funds and applies this distribution via screen interfaces.

10

15

A DB\_NPAY\_MININT program identifies the policies with minimum interest due. More specifically, this routine looks for any MININT policy loan transaction where the ANNUAL\_INTEREST\_DUE DATE field is 30 or more days in the past and the transaction amount is equal to 0 and lapses the affected policies (policy status changes to LPNVL, i.e., lapsed with no value).

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

2(b-iii) Loan Processing and Related Maintenance Interface Screens

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure, and/or for performing maintenance processing associated with the loans. For instance, a Loan Maintenance Screen (FIGS. 24 and 25) retrieves the loan transactions for a policy in response to entry of a valid policy number. A user may view the loan details (such date due, minimum interest due, etc.) by pressing the arrow button (in lower right of screen). Further, the screen allows a user to add a new loan for the displayed policy. Further still, this screen enables a user to modify the "Payor Name" and "Address." In this particular exemplary application, a user may also modify the subscriber's Florida Name and Address (for secondary billings required by Florida statute).

20

25

A Loan Approval and Loan Quote Screen (FIGS. 26 and 27) allow the user to process new loans. More specifically, the screens enable a user to query on an existing policy number to view the loan details. In order to process a new loan, the screen prompts the user to enter a policy number, loan date, and loan amount. In one embodiment, the loan amount should be less than the cash surrender value (CSV) for the policy and processing associated with the screen determines if this is true. When the user presses the "Loan Approval" button, the system approves or denies the loan (depending on the CSV). The screen indicates whether the system has approved or denied the loan by posting a "Y" or "N" symbol in the "Approval Indicator" field.

10

15

20

25

A Policy Loan Screen (FIG. 28) retrieves loan details for the policies. This screen allows the user to modify the interest rates applicable to the loans.

# 2(c) Waiver of Premium Processing (FIG. 6)

(c-i) Overview

FIG. 6 shows an exemplary routine for performing waiver of premium processing. By way of overview, the process includes an initial step 602 of placing a policy on waiver. As mentioned above, this action may be appropriate where the policyholder is excused from paying the premium for a prescribed amount of time, because of, for instance, his or her disability, provided that a disability rider is present on the policy. In step 604, the process includes updating the policy to waiver status (i.e., "WAIV" status). In step 606, premiums paid during the waiver period can be refunded. In step 608, the process includes updating paid-to-date information on a periodic basis. And in step 610, the process includes terminating the waiver when required.

# 2(c-ii). Waiver of Premium Processing Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_WAIV\_PTD\_UPDATE routine updates the waived policy's paid to date. More specifically, this routine detects any policies on waiver (current policy status = "WAIV") where the PAID\_TO\_DATE field should be updated.

Other batch reports that may be generated include notice of loan minimum interest due for policies on waiver, etc.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

2(c-iii) Waiver of Premium Processing Interface Screens

10

15

20

25

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure. For instance, a Premium Refund Information Screen (FIG. 23) retrieves policies along with the date ranges for which the policies are in waiver state. The user can instruct the system to generate a refund for premiums paid during the waiver period by invoking the "Generate Refund" button. In response, the system generates a Refund Sequence No. for that policy. A user may instruct the system to perform a reverse refund transaction (if needed) by invoking the "Reverse Refund" button. Further, a user can terminate the waiver status for a policy by invoking the "Terminate Waiver" button. A user may also reverse such termination by pressing the "Reverse Termination" button.

### 2(d) Cash Surrender Processing (FIG. 7)

### 2(d-i) Overview

FIG. 7 shows an exemplary routine for cash surrender processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview, the process includes an initial step 702 of providing a cash surrender value (CSV) quote to a customer. If the customer opts to "surrender" his or her policy, in step 704, the system 100 performs various CSV processing, such as calculating the CSV based on the rate book and outstanding loan amount, etc. In step 706, the system 100 updates the policy status to indicate that that policy has been "surrendered" (i.e., now has "SURR" status). And in step 708, if requested (or appropriate), the system 100 performs cash surrender reversal.

# 2(d-ii). Cash Surrender Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_CALC\_CSV routine returns the cash surrender value (CSV) for a policy. This same CSV calculation routine is used in a DB\_LOAN\_BILLING\_MININT routine for generating loan interest billing to check if

10

15

20

25

minimum interest is due and to generate a minimum interest due (MININT) transaction accordingly. This routine calculates the cash surrender value by fetching the appropriate records from the data storage 109 (such as a CSV\_RATE table). The function returns a value of "-1" in case of any errors that occur when running the routine.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

2(d-iii) Cash Surrender Processing Interface Screens

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure. For instance, a Cash Surrender Quote Screen (FIG. 29) allows the user to query on a valid policy number to retrieve the Cash Surrender Value (CSV) details for the corresponding policy. In one embodiment, the screen does not permit users to modify any of the fields on the screen.

A Cash Surrender Processing Screen (FIG. 30) allows users to generate and reverse cash surrender value transactions for an identified policy. The screen permits the user to query on an existing policy number. By invoking the "Cash Surrender" button, the system calculates the CSV amount for the identified policy, generates a surrender transaction against the policy, and changes the policy status to "SURR." The user may reverse the surrendered policy by activating the "Reverse" button.

A CSV Rate Screen (FIG. 31) retrieves and displays a Cash Surrender Value factor table. The system calculates the CSV amount for a policy using this CSV factor table. In one embodiment, the screen does not permit the user to add or modify the rate books.

A Plan Code Screen (FIG. 32) retrieves the plan codes and the corresponding plan descriptions from the data storage 109. The screen allows a user to add or modify plan codes.

10

15

20

25

A Policy CSV Transaction Screen (FIG. 33) retrieves the CSV transaction records for a policy. The screen permits a user to add a new CSV transaction, or to modify an existing CSV transaction.

### 2(e) Extended Value Processing (FIG. 8)

### 2(e-i) Overview

FIG. 8 shows an exemplary routine for performing extended value processing. By way of overview, the process includes an initial step 802 of registering the automatic or manual lapsing of a policy. In step 804, the system 100 calculates the cash surrender value (CSV) of the policy based on the rate book and the outstanding loan amount. In step 806, the system 100 updates the policy to indicate that extended value processing has taken place. In step 808, the system 100 reverses the lapse to extended term (returns the policy to premium-paying status) if required (or appropriate).

### 2(e-ii) Extended Value-Related Interface Screens

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure. For instance, an Extended Values Main Screen (FIG. 34) allows a user to modify the policy status to an Extended Term Insurance (ETI) status or a Reduced Paid Up (RPU) status. In operation, the user calls up a policy by entering a valid policy number. The system calculates CSV amount and the number of years of extended term or the reduced paid up coverage available from that amount. The system then adds this information to an appropriate table in the data storage 109 and changes the status of the policy to ETI or RPU depending on whether the Extended Term Insurance or Reduced Paid Up options are selected, respectively.

An Extended Term Insurance Screen (FIG. 35) retrieves the details of an Extended Term Insurance status policy when the user inputs a valid policy number of the LPNVL or ETI type. The screen permits the user to restore the status to its prior state by activating the "Reverse" button.

10

15

20

25

A Reduced Paid Up Screen (FIG. 36) retrieves details of a RPU status policy in response to the user inputting a valid policy number of the RPU status. In one embodiment, the screen permits the previous status of the policy to be restored by pressing the "Reverse" button.

An Extended Rate Screen (FIG. 37) retrieves the extended rate factor table used during conversion of a policy to ETI-status. In one embodiment, the screen does not permit the user to add or modify the rate book.

# 2(f) Death Claim Processing (FIG. 9)

2(f-i) Overview

FIG. 9 shows an exemplary routine for performing death claims processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview, the process includes an initial step 902 of receiving a request from an external system for policy information. In response to this request, in step 904, the system 100 updates the policy status to death claim filed (i.e., "DTHF"). In step 906, the system sends requested policy information to the claims system.

Another aspect of the death claims processing includes an initial step of receiving an indication that a death claim has been paid or cancelled (in step 908). Then, in step 910, the system updates the policy status to indicate that the death claim has been paid ("DTHP"). In the case of a cancellation of the claim, the system 100 reinstates the policy status that existed prior to cancellation.

# 2(f-ii). Death Claim Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_DC\_INTERFACE\_PRC routine interacts with the death claims system 212. More specifically, the death claims system 212 creates a file when a death claim is filed. On a daily basis, the debit system 202 checks for the existence of such a request for information file from the claims system 212. If

10

15

20

25

present, the DB DC INTERFACE PRC routine reads the file and generates a return file with policy and payee information for the policies associated with death claims identified in the request file. More specifically, for each record in the request file, the debit system 202 determines what information is required by the claims system 212, and then obtains that information. For instance, if the death claim system's file indicates that a claim is being set up, then the debit system 202 calls a DB\_DC\_INT\_CLAIM\_SETUP\_PRC routine to change the existing policy status to the "DTHF" status. If the death claim system's file indicates that the death claim has been paid, then the debit system 202 calls a DB\_DC\_INT\_CLAIM\_SETTLE\_PRC routine to change the policy status from "DTHF" to "DTHP." If the death claim system's file indicates that the death claim has been deleted, then the debit system 202 calls a DB\_DC\_INT\_CLAIM\_CANCEL\_PRC routine to delete the DTHF status and restore the policy's previous status. A DB DC\_INTERFACE\_WRITE\_PRC routine generates the policy and payee information required by the death claims system 212. A DB DC INT REQNF PRC routine processes the death claim system's request when the identified policy is not found in the debit system 202.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

### 2(g) Maturity Processing (FIG. 10)

2(g-i) Overview

FIG. 10 shows an exemplary routine for maturity-related processing using the system 100 of FIG. 1 with respect to one exemplary customer. By way of overview, the process includes a step 1002 of sending policy information every end of the month to the external matured endowments system 214 for policies maturing the subsequent month. In step 1004, the system then updates the policy status to "MATF" (maturity filed).

Another aspect of the maturing processing in FIG. 10 includes an initial step of receiving, from the matured endowments system 214, information that the maturity

10

15

20

25

claim has been paid (in step 1006). Then, in step 1008, the system updates the policy status to "MATP" (maturity paid status).

# 2(g-ii). Maturity Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform selected steps in the above-described procedure. For instance, a DB\_DC\_ME\_RESP\_READ\_PRC routine reads an interface file "DC\_ME\_LAPSES.TXT" generated by the matured endowments system 214 and updates the policy status for policies having settled maturity and death claim statuses. More specifically, this routine calls a DB\_DC\_ME\_RESP\_UPD\_PRC routine to close the "MATF" status of the policies identified in the DC\_ME\_LAPSES.TXT." That is, this routine changes the "MATF" status (maturity filed) to the "MATP" status (maturity paid) in the POLICY\_STATUS table.

A DB\_LIFE\_MAEX\_PR\_PRC program identifies the policies about to mature or expire and changes the status of appropriate tables in the data storage 109 to reflect this event. More specifically, this routine examines the data storage every month end to determine policies that will mature or expire in approximately 30 days.

Other batch reports that may be generated include a report that identifies inforce policies due to mature in the next calendar month, extended term or reduced paid up policies due to expire or mature in the next calendar month, policies on waiver due to mature, etc.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

# 2(h) Miscellaneous Maintenance Processing

2(h-i) Overview

The system 100 includes other routines for handling maintenance on the system 100. Such routines permit users to change system parameters, view error log

10

15

20

25

information, etc.

2(h-ii). Miscellaneous Maintenance Batch Processing and Reporting

A subset of the batch programs and reports identified in Tables II and III (in section No. 3 below) may be used to perform system-related maintenance. For instance, an DB\_ERRORS\_LOG\_PRC routine logs the errors that occur in the course of running the debit system's routines. More specifically, this routine logs details such as program ID, error line, Oracle error number, Oracle error message, etc. in an DB\_ERRORS table.

A DB\_GEN\_ACC\_EXTRACT routine generates an accounting extract file "EXTRACT.TXT" for "WP" and "MDO" debit modes when policies with loans are lapsed. More specifically, this routine fetches the records from appropriate tables in the data storage 109 and generates the extract file "EXTRACT.TXT."

A DB\_INVALID\_BILL\_ACC\_PRC routine sets ACCOUNT\_STATUS to "I" if the account is invalid. More specifically, this routine examines all records in a billing account table in the data storage 109 in which ACCOUNT\_STATUS = "A" (Active). The routine then locates any accounts that are invalid.

A DB\_MONTLY\_COUNTS routine maintains various counts and sums in a table stored in the data storage 109. In one embodiment, data from this table provides statistical displays on an intranet website. More specifically, the first day of the next month relative to the input date is computed and the counts and sums are calculated for this first day of the next month. Some of the counts that are computed include: (1) number of premium paying life policies with MDO and WP debit modes; (2) number of premium paying health policies with MDO and WP debit modes; (3) number of life policies with MDO and WP debit modes; (4) YTD (Year To Date) premium payment amounts for MDO and WP debit modes; (5) number of policies of extended term insurance type (ETI) with MDO and WP debit modes; (6) number of policies of reduced paid up (RPU) type with MDO and WP debit modes; (7) YTD number of policies surrendered with MDO and WP debit modes; (8) YTD number of

10

15

20

2.5

policies with death claim processed (DTHP) having MDO and WP debit modes; (9) YTD number of policies with matured endowment processed (MATP) having MDO and WP debit modes; (10) YTD number of lapsed life policies with MDO and WP debit modes; (11) number of paid up policies with MDO and WP debit modes; (12) total annual premium for premium paying life policies with MDO and WP debit modes; and (13) total annual premium for health policies with MDO and WP debit modes.

The debit system 202 also provides a number of on-line reports pertaining to the above-described processing, as identified in Table V in section No. 3 below.

2(h-iii) Miscellaneous Maintenance Processing Interface Screen

A subset of screens identified in Table IV (in section No. 3 below) may be used to facilitate performance of selected steps in the above-described procedure. For instance, an Access Role Entry Screen (FIG. 38) permits an administrator to control access to the interface screens. More specifically, this screen pulls up a list of roles and privileges currently applicable for the screens. The screen permits the user to add, modify or delete access roles and privileges for the screens.

An Error Message Entry Screen (FIG. 39) retrieves and displays error messages (along with associated error types and error numbers) generated by the debit system's screens.

A Report Definition Screen (FIG. 40) retrieves and displays valid report IDs and associated report names and run modes (specifying whether report is online or batch). The screen permits a user to add, modify or delete a report.

A Form Definition Screen (FIG. 41) retrieves all of the valid screen IDs and screen names in the debit system from the data storage 109. The screen permits a user to add, modify or delete ID and name information.

An Actuarial Extracts Screen (FIG. 42) allows a user to generate an actuarial extract file for use by actuarial personnel within an organization. In operation, the

10

15

user enters the date and desired location of the extract file to be output. The user then creates the actuarial extracts file by pressing the "Generate Extracts" button.

An Error Log Screen (FIG. 43) retrieves the details of the errors generated during execution of the batch programs (which are trapped in the DB\_ERRORS table). The screens allows a user to query on the batch "Program name," "Run by," or "Run date" fields to retrieve the error messages.

# 3. Tables Describing Detailed Exemplary Embodiment

The following tables, in conjunction with FIGS. 11-43, identify a detailed exemplary embodiment of the present invention. Namely, Table I describes exemplary data tables that may be used to store data in the data storage 109 of the insurance processing system 102 of FIG. 2. Table II identifies exemplary batch programs for use in administering the insurance program. Table III identifies exemplary batch reports that are generated by the system of FIG. 1. Table IV, in conjunction with FIGS. 11-43, identify exemplary screens for interacting with the system 100 of FIG. 1. And Table V describes exemplary on-line reports that may be generated by the system 100 of FIG. 1.

Table I: Data Model

Table Name	Variables
BATCH PROCESS CONTROL	PAYPROCESS_DONE_DATE;
	LOANPROCESS_DONE_DATE
BILLING ACCOUNT	BILLING_ACCOUNT_NO; DISCOUNT_CODE;
	ACCOUNT STATUS; DEBIT_MODE; PAID_TO_DATE;
	DATE LAST_PAID; PARTIAL_PAYMENT_BALANCE;
	NEXT COUPON BOOK DATE; CHECK DIGIT;
	LAPSE NOTICE_SENT; DATE_LAST_MODIFIED;
	MAINT USER_ID
BILLING ACCOUNT PAYOR	BILLING ACCOUNT_NO; PAYOR_ID_NO;
	PAYOR TYPE; START_DATE; STOP_DATE;
	DATE LAST_MODIFIED; MAINT_USER_ID
BILLING ACCOUNT TRANS	BILLING ACCOUNT NO; PAID TO DATE;
	NO OF MODAL PREMS_PAID; DEBIT_TRANS_TYPE;
	TRANSACTION METHOD; DATE_RECEIVED;
	AMOUNT RECEIVED;
	PREMIUM_PAYMENT_AMOUNT;
	PARTIAL PAYMENT; REFUND_INDICATOR;
	REFUND SEQ NUMBER; REMINDER NOTICE SENT;

Table Name	Vovishles
1 anic 14aine	Variables
	DESCRIPTION; LATE NOTICE SENT; PAYMENT APPLIED FLAG; CHECK DIGIT; CS_BATCH_NUMBER; CS_SEQUENCE_NUMBER; ACK_LETTER_SENT; DATE_LAST_MODIFIED; MAINT_USER_ID
CSV_RATE	PLAN CODE; WEEKLY RATE BOOK CODE;
	ATTAINED_AGE; DURATION;
	CSV_AMOUNT_FACTOR; RATE_BOOK; ISSUE_AGE;
	DATE LAST MODIFIED; MAINT USER ID
DB ACCESS DENIAL	TABLE NAME; DENIAL CD; FORM NAME
DB_ACCESS_ROLE	ACCESS_CD; OBJECT_CD; OBJECT_ID; ROLE_ID; MAINT USER ID; DATE LAST MODIFIED
DB DC RESPONSE PAYEE	COMPANY CODE; POLICY NUMBER;
bb_bc_idesi okse_i at EE	CLAIM_NUMBER: REQUEST_TYPE; REQUEST_DATE; PAYEE_ID; PAYEE_NAME; ADDRESS_LINE_1; ADDRESS_LINE_2; ADDRESS_LINE_5; ADDRESS_LINE_4; ADDRESS_CITY; ADDRESS_STATE_CODE; ADDRESS_ZIP_CODE; TAX_ID; TAX_ID_TYPE; PAYEE_TYPE;
	TAX RELATIONSHIP; PERSON BUSINESS
DB_DC_RESPONSE_POLICY	COMPANY CODE, POLICY NUMBER; CLAIM NUMBER; REQUEST TYPE; REQUEST DATE; ORIGINAL POLICY STATUS; RETURN CODE; INSURED NAME FST; INSURED NAME LST; INSURED NAME MID; BILLING FORM; ISSUE AGE; ISSUE DATE; PAID TO DATE; INDICATOR; SERVICE AGENCY CODE; MEDICAL; RATING 2; CHANNEL; POLICY CONTROL STATUS; MORTALITY CLASS CODE; LAPSE STATUS; MORTALITY CLASS CODE; LAPSE STATUS; CLASS CODE BASIC; LOB BASIC; CLASS CODE BASIC; LOB BASIC; CLASS CODE BASIC; PLAN CODE BASIC; AMOUNT; DASIC; REINSURANCE AMOUNT; ELEMENT CODE ADB; LOB ADB; CLASS CODE ADB; PLAN CODE RDR1; LOB RDR1; CLASS CODE EDR1; PLAN CODE RDR1; AMOUNT ADB: ELEMENT CODE RDR1; LOB RDR1; CLASS CODE CODE; PLAN CODE RDR1; AMOUNT RDR1; ELEMENT CODE RDR3; AMOUNT RDR2; ELEMENT CODE RDR3; LOB RDR3; CLASS CODE RDR3; PLAN CODE RDR3; AMOUNT RDR3; ELEMENT CODE RDR3; LOB RDR3; CLASS CODE RDR3; PLAN CODE RDR3; AMOUNT RDR3; ELEMENT CODE RDR4; LOB RDR4; CLASS CODE RDR4; PLAN CODE RDR3; AMOUNT RDR3; ELEMENT CODE RDR4; AMOUNT RDR3; ELEMENT CODE RDR4; LOB RDR4; CLASS CODE RDR4; PLAN CODE RDR4; AMOUNT RDR3; ELEMENT CODE RDR4; INTEREST ON POLICY LOAN; MOUNT REFUNDED; PREMIUM REFUND DATE; INTEREST ON POLICY LOAN; MOUNT REFUNDED; PREMIUM REFUND DATE; INTEREST ON POLICY LOAN; MOUNT REFUNDED; PREMIUM REFUND DATE; POLICY LOAN AMOUNT; AVAILABLE; AGENT CODE; AGENT NAME; INSURED SN5; NUMBER OF PAYEES; BENEFIT TERMINATION DATE; MATURITY DATE;

Table Name	Variables
	EXPIRY_DATE; FACE_AMOUNT_AT_ISSUE;
	ANNUAL_PREMIUM; DATE_OF_BIRTH;
	INSURED_TITLE; ANNUITY_FLAG; ISSUE_STATE;
	TYPE_OF_INTEREST; REFUND_START_DATE;
	RELATION
DB_ERRORS	PROGRAM_ID; PROGRAM_RUN_USER_ID;
	PROGRAM_RUN_DATE; ERROR_LINE_SEQUENCE; ORACLE ERROR NUM; ORACLE ERROR MSG;
	ERROR_DESC; SEVERITY_FLAG
DB ERROR MESSAGE DEF	ERROR TYPE; ERROR NUM; ERROR MESSAGE;
DB_ERROR_MESSAGE_DEF	MAINT USER ID: DATE LAST MODIFIED:
	USR CODE
DB ME RESPONSE PAYEE	PAYEE NAME; TAX ID TYPE; TAX ID;
	ADDRESS LINE 1; ADDRESS LINE 2;
	ADDRESS LINE 3; ADDRESS LINE 4;
	ADDRESS CITY; ADDRESS ZIP CODE;
	ADDRESS_STATE_CODE; COMPANY_CODE;
	POLICY_NUMBER; REQUEST_TYPE
DB_ME_RESPONSE_POLICY	COMPANY_CODE; POLICY_NUMBER;
	REQUEST_TYPE; INSURED_NAME; INSURED_SEX;
	ISSUE_AGE; ISSUE_STATE; PENSION_CODE;
	BILLING_FORM; AGENT_ACCOUNT;
!	MATURITY_DATE; PAID_TO_DATE; PAID_UP_DATE; POLICY_CONTROL_STATUS; LOAN_INDICATOR;
	SUSPEND INDICATOR; MODE OF PAYMENT:
	SERVICE AGENCY CODE; MODAL PREMIUM;
	CASE1: CHANNEL: LOB BASIC;
:	CLASS CODE BASIC; PLAN CODE BASIC
	AMOUNT BASIC; POLICY LOAN AMOUNT;
	PLAN_SHORT_NAME; POLICY_LOAN_DATE;
	LRP_DATE; LAPSE_CAUSE;
	AMOUNT_OF_INSURANCE; YEAR_OF_CHANGE;
	DISABILITY_PREMIUM; ADB_PREMIUM;
	RIDER_PREMIUM; RIDER_AMOUNT;
	INTEREST_RATE; INTEREST_PAID_TO_YEAR;
DD DOLLOW	RIDER_UNITS; LC_ENDOW; ISSUE_DATE POLICY_NUMBER; ISSUE_DATE; PAID_UP_DATE;
DB_POLICY	EXPIRY DATE: DATE LAST PAID; PAID TO DATE;
	MATURITY DATE; MATURITY YEAR;
	MATURITY REPORTED; POLICY TYPE;
	DEBIT MODE; INDUSTRIAL FLAG;
	YEAR_OF_CHANGE_DATE; INSURED_CIN;
	YEAR_OF_CHANGE_DATE; INSURED_CIN; VALUATION_CLASS; AGENT_CODE;
	YEAR_OF_CHANGE_DATE; INSURED_CIN; VALUATION_CLASS; AGENT_CODE; BENEFICIARY_CIN; APPLICANT_AGE_RANGE;
	YEAR_OF_CHANGE_DATE; INSURED_CIN; VALUATION_CLASS; AGENT_CODE; BENEFICIARY_CIN; APPLICANT_AGE_RANGE; EXPIRY_YEAR; MATURITY_EXPIRY_YY;
	YEAR OF CHANGE DATE; INSURED CIN; VALUATION CLASS; AGENT CODE; BENEFICIARY_CIN; APPLICANT_AGE_RANGE; EXPIRY_YEAR; MATURITY_EXPIRY_YY; CONVERSION_STATUS; DATE_LAST_MODIFIED;
DR REPORT DEE	YEAR OF CHANGE DATE; INSURED CIN; VALUATION CLASS; AGENT_CODE; BENEFICIARY_CIN; APPLICANT_AGE_RANGE; EXPIRY_YEAR; MATURITY_EXPIRY_YY; CONVERSION_STATUS; DATE_LAST_MODIFIED; MAINT_USER_ID; MATURITY_EXPIRY_YYYY
DB_REPORT_DEF	YEAR_OF_CHANGE_DATE; INSURED_CIN; VALUATION_CLASS; AGENT_CODE; BENEFICIARY_CIN; APPLICANT_AGE_RANGE; EXPIRY_YEAR; MATURITY_EXPIRY_YY; CONVERSION_STATUS; DATE_LAST_MODIFIED; MAINT_USER_ID; MATURITY_EXPIRY_YYYY REPORT_ID; DEBIT_REPORT_NAME;
DB_REPORT_DEF	YEAR OF CHANGE DATE; INSURED CIN; VALUATION CLASS; AGENT CODE; BENEFICIARY CIN; APPLICANT AGE_RANGE; EXPIRY YEAR; MATURITY EXPIRY YY; CONVERSION STATUS; DATE LAST MODIFIED; MAINT USER ID; MATURITY EXPIRY YYYY REPORT_ID; DEBIT_REPORT_NAME; MAINT_USER_ID; DATE_LAST_MODIFIED;
	YEAR OF CHANGE DATE; INSURED CIN; VALUATION CLASS; AGENT_CODE; BENEFICIARY_CIN; APPLICANT_AGE_RANGE; EXPIRY_YEAR; MATURITY_EXPIRY_YY; CONVERSION_STATUS; DATE_LAST_MODIFIED; MAINT_USER_ID; MATURITY_EXPIRY_YYYY REPORT_ID; DEBIT_REPORT_NAME; MAINT_USER_ID; DATE_LAST_MODIFIED; RUN_MODE
DB_REPORT_DEF  DB_SCREEN_DEF	YEAR OF CHANGE DATE; INSURED CIN; VALUATION CLASS; AGENT CODE; BENEFICIARY_CIN; APPLICANT_AGE_RANGE; EXPIRY_YEAR; MATURITY_EXPIRY_YY; CONVERSION_STATUS; DATE_LAST_MODIFIED; MAINT_USER_ID; MATURITY_EXPIRY_YYYY REPORT_ID; DEBIT_REPORT_NAME; MAINT_USER_ID; DATE_LAST_MODIFIED; RUN_MODE SCREEN_ID; SCREEN_NAME; MAINT_USER_ID;
	YEAR OF CHANGE DATE; INSURED CIN; VALUATION CLASS; AGENT_CODE; BENEFICIARY_CIN; APPLICANT_AGE_RANGE; EXPIRY_YEAR; MATURITY_EXPIRY_YY; CONVERSION_STATUS; DATE_LAST_MODIFIED; MAINT_USER_ID; MATURITY_EXPIRY_YYYY REPORT_ID; DEBIT_REPORT_NAME; MAINT_USER_ID; DATE_LAST_MODIFIED; RUN_MODE

Table Name	Variables
DB VERSION	VERSION NUMBER
DEBIT CLIENT	CLIENT ID NUMBER; NAME LST; NAME FST;
DEDIT_CENEX.1	NAME MID: TAX ID: DATE LAST MODIFIED:
	MAINT USER ID; ADDRESS LINE 1;
	ADDRESS LINE 2; ADDRESS LINE 3;
	ADDRESS LINE 4; ADDRESS CITY;
	ADDRESS STATE CODE; ADDRESS ZIP CODE
EXT RATE	WEEKLY RATE BOOK CODE; RATE BOOK;
	PLAN CODE; DURATION; COST PERIOD;
	ADD DAYS; PURE ENDOW FACTOR;
	PAID UP POLICY AMT; ATTAINED AGE;
	DATE LAST MODIFIED; MAINT USER ID
HEALTH POLICY	POLICY NUMBER; INSURED_YOB; SPOUSE_YOB;
_	SPOUSE_AGE; HIR_CODE; WAIVER_1; WAIVER_II;
	HLTH_RATE_BOOK_CODE;
	MARITIAL_STATUS;CHANGE_IN_PREMIUM;
	DATE_CHANGED; MO_YR_OLDEST; V_INCREASE;
	DATE_LAST_MODIFIED; MAINT_USER_ID
LOAN_APPROVAL	POLICY_NUMBER; LOAN_AMOUNT_REQUESTED;
	DATE_OF_LOAN; EXISTING_LOAN_AMOUNT;
	INTEREST_RATE; LOAN_TYPE;
	CASH_SURRENDER_VALUE; ANNUAL_INTEREST;
	APPROVAL_INDICATOR;
	REASON_FOR_DISAPPROVAL; DATE LAST MODIFIED; MAINT USER ID
LOAN BILLING	POLICY NUMBER; PAYOR ID NO; PAYOR TYPE;
LOAN_BILLING	START_DATE; STOP_DATE; DATE_LAST_MODIFIED;
	MAINT USER ID
MDO COUPON	BILLING ACCOUNT NO; BILLING AMOUNT
MDO COUPON BOOK	POLICY NUMBER:
REQUEST	
PLAN CODES	PLAN_CODE; WP_PLAN_CODE;
_	PLAN_CODE_DESC_SHORT; PLAN_CODE_DESC;
	PLAN_CODE_TYPE; INDUSTRIAL_FLAG; TERM_IND;
	MATURITY_AGE; PAID_UP_AGE; MAINT_USER_ID;
	DATE_LAST_MODIFIED; INIT_AGE_LIMIT;
	INIT_VPU; ULTIMATE_VPU
POLICIES_NOT_CONVERTED	POLICY_NUMBER; INSURED_NAME; DISTRICT;
	DEBIT; RATE_BOOK; PLAN_CODE;
	ISSUE_DATE_CHAR; ISSUE_AGE;
	MODAL_PREMIUM; LRP; AGENT_CODE; REPL PREM; REPL WEEKS; DLP MLP;
	LAPSE CAUSE; AMOUNT OF INSURANCE; YOC;
	DISABILITY PREM; ADB PREM; RIDER_PREM;
	RIDER PLAN CODE; INSURED SEX; MEDICAL;
	APPLICANT AGE RANGE; WP ADB RATING;
	MDO VALUATION CLASS; INTEREST RATE;
	INTEREST_YEAR; LOAN_AMOUNT;
	MDO VAL_RATING; TERMINATION_CODE;
	TRANSACTION_CODE; OYB_INSURED;
	EXPIRY_OR_MATURITY; NF_KIND;
	AMOUNT_EXTENDED; YEARS_EXTENDED;
	DAYS_EXTENDED; PURE_ENDOW_AMT;
	PAID UP AMT; FILE OF ORIGIN; OPAI PREMIUM;

Table Name	Variables
	RIDER UNITS; MAINT USER ID;
	DATE LAST MODIFIED
POLICY COVERAGE	POLICY NUMBER; PLAN CODE;
_	COVERAGE SEQUENCE; INSURED_LEVEL;
	SEX_RELATIONSHIP; MODAL_PREMIUM;
	AMOUNT OF INSURANCE;
	ULTIMATE_FACE_AMOUNT; UNITS; ISSUE_AGE;
	INSURED_NO_OF_CHILDREN; INSURED_YOB;
	RATE_BOOK; RATING; PREMIUM_REMOVED;
	DESCRIPTION; MDO_VALUATION_CLASS;
	START_DATE; STOP_DATE; MAINT_USER_ID;
	DATE LAST MODIFIED
POLICY_CSV_TRANSACTION	POLICY_NUMBER; CSV_EFFECTIVE_DATE;
	DATE LAST PAID; CSV_TRANS_TYPE;
	LOAN_BALANCE_ASOF_DLP; INTEREST_REF_DED; PREMIUM REF_DED; REVERSAL_ENTRY_DATE;
	SURRENDER AMOUNT; EXT TERM YEAR;
	EXT TERM DAYS: PURE ENDOWMENT;
	REDUCED PAID UP AMT; LAPSE REPORTED;
	DATE LAST MODIFIED;MAINT_USER_ID
POLICY LOAN	POLICY NUMBER; INTEREST_RATE;
TOLICI_LOAN	INTEREST NEXT DUE DATE;
	INTEREST LAST PAID DATE;
	INTEREST LAST ADDED DATE;
	DATE LAST MODIFIED; MAINT_USER_ID;
POLICY LOAN	POLICY NUMBER; DEBIT_TRANS_TYPE;
TRANSACTION	TRANSACTION_EFF_DATE; INTEREST_DUE_DATE;
	DATE_RECEIVED; MIN_INTEREST;
	AMOUNT_RECEIVED; TRANSACTION_AMOUNT;
	DESCRIPTION; ADJUST_LOAN_TYPE;
	ACCOUNTING GEN_DATE; REVERSAL_DATE; LAPSE LETTER SENT; BILLING STATEMENT SENT;
	DATE LAST MODIFIED; MAINT USER ID
POLICY MODAL PREMIUM	POLICY NUMBER; MODAL PREMIUM;
TOLICI_MODAL_TREMIOM	START DATE; STOP_DATE; REFUND_SEQ_NUMBER;
	COVERAGE SEQUENCE; DATE LAST MODIFIED;
	MAINT USER ID; PAID TO DATE AT CHANGE;
POLICY PREMIUM BILLING	POLICY NUMBER; BILLING_ACCOUNT_NO;
	START_DATE; STOP_DATE; DATE_LAST_MODIFIED;
	MAINT_USER_ID
POLICY_STATUS	POLICY_NUMBER; POLICY_STATUS;
	DC_INFO_SENT_DATE; START_DATE; STOP_DATE;
	CAUSE; REFUND_SEQ_NUMBER; PENDING_STATUS;
	DATE_LAST_MODIFIED; MAINT_USER_ID;
THE PROPERTY OF THE PROPERTY O	PDUP_LETTER_SENT; NOTES BILLING ACCOUNT NO; PAID_TO_DATE;
PREMIUM_REFUND	POLICY NUMBER; REFUND START DATE;
	AMOUNT REFUNDED; DATE_ENTERED;
1	
	REFUND_TYPE; REFUND_SEQ_NUMBER; CHECK_OR_REFUND: DATE_LAST_MODIFIED:
	CHECK_OR_REFUND; DATE_LAST_MODIFIED;
PREMITIM WAIVER	CHECK OR REFUND; DATE LAST MODIFIED; MAINT_USER_ID; PARTIAL PAYMENT REFUNDED
PREMIUM_WAIVER	CHECK_OR_REFUND; DATE_LAST_MODIFIED;

Table Name	Variables
PROJECT INFO	PROJECT_CODE; SOLUTION; SITE; PROJECT_TYPE
PTD DATA	BILLING ACCOUNT_NO; POLICY_NUMBER;
	PAID TO DATE
STATE COMP	STATE CODE; STATE STRING
VALID STATUS CODES	POLICY STATUS; STATUS DESCRIPTION
WP PLAN CODE	WP PLAN CODE; PLAN CODE; INDUSTRIAL FLAG
CONVERSION	
W BATCH PAYMENT	BILLING ACCOUNT_NO; CHECK_DIGIT;
<del>_</del>	DATE_PROCESSED; BATCH_NUMBER;
	SEQUENCE_NUMBER_5; COMPANY_CODE_2;
	PREMIUM_DUE; PREV_AMT_PAID;
	CURR_AMT_PAID
W_LOAN_PAYMENT	POLICY_NUMBER; DATE_PROCESSED;
	ANNUAL_INTEREST_DUE; COMPANY_CODE_2;
	PAID_AMOUNT; BATCH_NUMBER;
	SEQUENCE NUMBER 5
COUNT_YTD	MONTH_1 <sup>ST</sup> _DAY; PPAY_LIFE_MDO;
	PPAY_LIFE_WP; PPAY_HEALTH_MDO;
	PPAY_HEALTH_WP; SURR_YTD_MDO;
	SURR_YTD_WP; MAT_YTD_MDO; MAT_YTD_WP;
	DEATH_YTD_MDO; DEATH_YTD_WP;
	LAPSE_YTD_LIFE_MDO; LAPSE_YTD_LIFE_WP;
	COUNT_ETI_MDO; COUNT_ETI_WP; COUNT_RPU_MDO; COUNT_RPU_WP;
	PREM YTD_LIFE_MDO; PREM_YTD_LIFE_WP;
	PREM_YID_LIFE_MDO; PREM_IID_LIFE_WI; PREM_YTD_HEALTH_MDO;
	PREM_YID_HEALTH_MDO;
	LAPSE YTD HEALTH MDO;
	LAPSE YTD HEALTH_WP;
	WAIV REMAINING_MDO; WAIV_REMAINING_WP;
	COUNT PDUP_MDO; COUNT_PDUP_WP;
	MDO ANNUALIZED_PREM;
	WP ANNUALIZED PREM;
	MDO ANNUALIZED HLTH PREM;
	WP ANNUALIZED HLTH PREM

Table II: Batch Programs

Routine Name	Input	Output	Description
CALC_ LOAN_ BALANCE	POLICY_ NUMBER	None	The CALC_LOAN_BALLANCE routine returns the loan balance amount for a policy. This routine is used in the DB_LOAN_BILLING_MININT, DB_LAPSE_PPAY_PRC, DB_NPAY_MININT and DB_GEN_LOAN_TRANS_PRC routines to calculate the principal loan balance amount for the policies. This routine fetches the loan amount from the POLICY_LOAN_TRANSACTION table for a particular policy.
DB_CALC_	POLICY_ NUMBER:	None	The DB_CALC_CSV routine returns the cash surrender value (CSV) for a policy. The CSV is used

N N	× .		n
Routine Name	Input	Output	Description
	NUMBER DATE		in the DB_LOAN_BILLING_MININT routine to check if minimum interest is due and to generate a MININT transaction accordingly. This routine calculates the cash surrender value by fetching the
			appropriate records from the DB_POLICY, POLICY_COVERAGE and CSV_RATE tables. The function returns a value of "-1" in case of any errors that occur when running the routine. The DB_ERRORS_LOG_PRC routine may be used to handle the errors generated in the DB_CALC_CSV routine.
DB_CALC_ CSV_ON_ DATE	POLICY_ NUM- BER; DATE	None	The DB_CALC_CSV_ON_DATE routine calculates the cash surrender value for a policy on a specific date. The cash surrender value is used in the DB_LOAN_BILLING_MININT routine to check if minimum interest is due and to generate an MININT transaction accordingly. This routine calculates the cash surrender value by fetching the appropriate records from the DB_POLICY, POLICY_COYERAGE and CSV_RATE tables. The function returns a value of "1" in case of any errors generated. The DB_ERRORS_LOG_PRC routine may be used to handle any errors generated in the DB_CALC_ON_CSV function.
DB_DC_ INTERFACE_ PRC	P_FILEDIR (Directory Path)	None	The DB_DC_INTERFACE_PRC routine interacts with the death claims system 212. More specifically, the death claims system 212 creates a file when a death claim is filed. On a daily basis, the debit system 202 checks for the existence of such a file from the claims system 212. If present, the DB_DC_INTERFACE_PRC routine reads the file and generates policy and payee information for the policies associated with death claims identified in the file. More specifically, for each record in the file, the debit system 202 determines what information is required by the claims system 212, and then obtains that information. For instance, if the death claim system's file indicates that a claim is being set up, then the debit system 202 calls the DB_DC_INT_CLAIM_SETUP_PRC routine (discussed below) to change the existing POLICY_STATUS to the "DTHF" status. If the death claim system's file indicates that the death claim has been paid, then the debit system 202 call the DB_DC_INT_CLAIM_SETUT_LE PRC routine (discussed below) to changes the POLICY_STATUS from "DTHF" to "DTHF". If the death claim system's file indicates that the death claim has been deleted, then the debit system 202 calls the DB_DC_INT_CLAIM_CANCEL_PRC routine (discussed below) to changes the POLICY_STATUS file indicates that the death claim has been deleted, then the debit system 202 calls the DB_DC_INT_ERFACE_WRITE_PRC routine (discussed below) to delete the DTHF status and restore the policys previous status. The

Routine Name	Input	Output	Description
Tourne, same	A Park		by the death claims system 212. The DB DC INT REQNF PRC routine processes the death claim system's request when the identified policy is not found in the debit system 202; this prompts the system 202 to insert a record in the DB DC RESPONSE POLICY table with return code "99".
DB_DC_ INT_CLAIM_ CANCEL_PRC	DC_ REQUEST _LINE; POLICY_ NUMBER; I_ERROR_ LINE_SEQ _PAR	O_ ER- ROR_ LINE_ SEQ_ PAR	The DB_DC_INT_CLAIM_CANCEL_PRC routine cancels the "DTHF" status for the policies associated with a death claim that has been deleted. This routine is called from the DB_DC_INTERFACE_PRC routine (discussed above). That is, the DB_DC_INTERFACE_PRC routine reviews the file generated by the death claim system's 212 for an indication that a death claim has been canceled, and then passes the policy associated with such a claim to the DB_DC_INT_CLAIM_CANCEL_PRC routine. This routine deletes the "DTHF" status of the policy associated with a cancelled death claim in the POLICY_STATUS table and activates the previous status for the policy. This routine also updates the STOP DATE field of the POLICY_STATUS table.
DB_DC_INT_ CLAIM_ SETTLE_ PRC	DC_ REQUEST _LINE; POLICY_ NUMBER; I_ERROR_ LINE_ SEQ_ PAR	O_ ER- ROR_ LINE_ SEQ_ PAR	The DB_DC_INT_CLAIM_SETTLE_PRC routine changes the "DTHF" (Death Claim Filed) status to the "DTHF" (Death Claim Filed) status to the "DTHP" (Death Claim Filed) status in the POLICY_STATUS table for the policies associated with settled death claims. This routine is called from the DB_DC_INTERFACE_PRC routine (discussed above). That is, the DB_DC_INTERFACE_PRC reviews the file generated by the death claim system 212 for an indication that a death claim has been canceled, and then passes such a claim to the DB_DC_INT_CLAIM_SETTLE_PRC routine. This routine changes the status in the POLICY_STATUS table from "DTHF" to "DTHP." This routine also updates the STOP_DATE field to the current date - 1. This routine also checks for any PAYPRM transactions (premium payments) received for the policy after the death claim has been filed. The system refunds all such transactions by inserting an appropriate record in the PREMIUM_REFUND table.
DB_DC_INT_ CLAIM_ SETUP_PRC	DC_ REQUEST _LINE; POLICY_ NUMBER; I_ERROR_ LINE_SEQ _PAR	O_ ER- ROR_ LINE_ SEQ_ PAR	The DB_DC_INT_CLAIM_SETUP_PRC routine fetches the details of policies associated with a new claim setup and inserts appropriate records in the DB_DC_RESPONSE_POLICY table. More specifically, the following tables are queried to fetch the policy details: DBBIT_CLIENT; POLICY_MODAL_PREMIUM; POLICY_COVERAGE; POLICY_STATUS; DB_POLICY; POLICY_LOAN_TRANSACTION; and POLICY_COVERAGE. This routine further changes the status of the policies to "DTHF." And if the current POLICY_STATUS is "DTHF." then this routine updates the DC_INFO_SENT_DATE field of

Routine Name	Input	Output	Description
			the POLICY_COVERAGE table. This routine is called from the DB_DC_INTERFACE_PRC routine, which examines the file generated by the death claim system 212 for an indication of new claim setups.  The DB_DC_INT_REGNF_PRC routine inserts a
DB_DC_INT_ REQNF_PRC	DC_ REQUEST _LINE; I_ERROR_ LINE_SEQ _PAR	O_ ER- ROR_ LINE_ SEQ_ PAR	record into the DB_DC_RESPONSE_POLICY table when the requested policy details are not found in the debit system 202. This routine is called from the DB_DC_INTERFACE_PRC routine. That is, the DB_DC_INTERFACE_PRC routine examines the file generated by the death claim system 212. If the file identifies policy information that is not found in the debit system 202, then the DB_DC_INT_REGNF_PRC routine inserts a record in the DB_DC_RESPONSE_POLICY table with return code "9."
DB_DC_ INTERFACE_ WRITE _PRC	P_ FILEDIR (Directory Path)	None	The DB_DC_INTERFACE_WRITE_PRC routine generates the policy and payee flat files, namely DC_DEBIT_POLICY_IXT and DC_DEBIT_PAYEE_TXT, respectively, for the death claims system 212. More specifically, this routine collects the requested policy and payee information from the DB_DC_RESPONSE_POLICY and DB_DC_RESPONSE_PAYEE tables, respectively, and then generates the DC_DEBIT_POLICY_IXT and DC_DEBIT_PAYEE_TXT flat files which are sent to the death claims system 212. This procedure is called from the DB_DC_INTERFACE_PRC_TOUTINE.
DB_DC_ME_ RESP_READ_ PRC	P_ FILEDIR (Directory Path)	None	The DB_DC_ME_RESP_READ_PRC reads the interface file "DC_ME_LAPSES.TXT" generated by the matured endowments system 214 and updates the POLICY_STATUS table for policies having settled maturity and lapsed death claims statuses. This routine calls the DB_DC_ME_RESP_UPD_PRC routine to close the "MATF" status of the policies identified in the DC_ME_LAPSES.TXT". That is, kins routine changes the "MATF" status (maturity filed) to the "MATP" status (maturity filed) to the POLICY_STATUS table.
DB_DC_ME_ RESP_UPD_ PRC	DC_ REQUEST _LINE; POLICY_ NUMBER; I_ERROR_ LINE_SEQ _PAR	O_ ER- ROR_ LINE_ SEQ_ PAR	The DB_DC_ME_RESP_UPD_PRC routine closes the "MATF" status and inserts the "MATP" status in the POLICY_STATUS table for policies having settled maturity and lapsed death claims. But the "MATP" status is inserted for a policy only if the previous status is "MATF." This routine also updates the STOP_DATE field of the POLICY_STATUS table. This routine is called from the DB_DC_ME_RESP_READ_PRC routine (discussed above).
DB_ERRORS_ LOG_PRC	None	None	The DB_ERRORS_LOG_PRC routine logs the errors that occur in the course of running the debit system's routines. More specifically, this routine logs details such as program ID, error line, oracle error number, oracle error message, etc. in the DB_ERRORS table.

	Input	Ontant	Description
	P P	Output None	The DB GEN ACC EXTRACT routine generates the
	FILEDIR	None	accounting extract file "EXTRACT.TXT" for "WP"
EATRACI	FILLDIK		and "MDO" debit modes. More specifically, this
			routine fetches the records from the DB POLICY and
			POLICY LOAN TRANSACTION tables for "WP"
			and "MDO" debit modes and generates the extract file
			"EXTRACT.TXT." The routine also updates the
			POLICY LOAN TRANSACTION table to set the
			ACCOUNTING GEN DATE to the current date.
DB	None	None	The DB GEN LOAN TRAN PRC routine creates
GEN	None	None	TRMNTD loan transactions for all the revived or
LOAN		ĺ	lapsed policies. This routine fetches the records from
TRAN_PRC			POLICY STATUS and
TALK. TARC		1	POLICY LOAN TRANSACTIONS tables having
		1	STOP DATE = START DATE - 1 and
		}	POLICY STATUS "IN" (e.g., ETI, RPU, SURR,
		}	LPNVL, DTH, MATP) and insert records into the
		1	POLICY LOAN TRANSACTIONS table. The
			DB_ERRORS_PRC routine handles all of the errors.
DB HEALTH	None	None	The DB HEALTH MATEXPR PRC program
MATEXPR			identifies the health policies about to expire and
PRC			changes the status in the POLICY STATUS table.
			More specifically, this routine looks for health policies
			that will expire within the coming calendar month (that
			is, the EXPIRY DATE of the policy is within the
			coming calendar month). On finding such a policy, the
į į			routines builds a policy status record of "EXPIR" with
			START DATE = EXPIRY_DATE + 1 day, and builds
			a PPAY status record with SET_STOP on the
			EXPIRY_DATE. The DB_ERRORS_LOG_PRC
			routine handles all of the errors.
	None	None	The DB_INVALID_BILL_ACC_PRC routine sets
BILL_ACC_			ACCOUNT_STATUS to "I" if the account is invalid.
PRC		Ì	More specifically, this routine examines all records in
			the BILLING_ACCOUNT table in which
1		1	ACCOUNT_STATUS = "A" (Active). The routine
		ì	then locates any accounts where one of the following
1			situations exists, and then sets the
1		ł	ACCOUNT STATUS to "I" (Inactive or Invalid): (1)
i i		1	there is no current PRIMARY_PAYER attached to the account (where there normally should be a
			BILLING ACCOUNT PAYER table record
1		ł	indicating that PAYOR TYPE = "P" and the current
		1	system date is between START DATE and
			STOP DATE); (2) there is a policy attached to the
			account that has status "PPAY," but does not have a
			current POLICY MODAL PREMIUM table record
			(where there normally should be a record indicating
}			that every premium paying policy has a
			POLICY MODAL PREMIUM record with current
			system date between START DATE and
			STOP DATE); (3) there are no policies currently
			attached to the account in the
		(	POLICY PREMIUM BILLING table (where there

Routine Name	Input	Output	Description
			should be at least one POLICY PREMIUM
	1	1	BILLING table record with
			BILLING_ACCOUNT_NO equal to the billing
			account, where current system date is between
	1	1	START_DATE and STOP_DATE. The
			DB_ERRORS_LOGPRC routine handles all errors.
DB_LAPSE	None	None	The DB LAPSE PPAY routine identifies the
_PPAY			premium paying policies having PAID_TO_DATE > =
		1	90 past due, where account status is "A." On finding
			such a billing account, this routine determines if there
	I	ì	are still policies attached to it with POLICY_STATUS
		}	= "PPAY." If so, this billing account and its policies
			are lapsed.
DB	None	None	The DB_LIFE_MAEX_PR_PRC program identifies
LIFE_MATEX	1	1	the policies about to mature or expire and changes the
PR_PRC			status in the POLICY_STATUS table to reflect this
	1	ļ	event. More specifically, this routine examines the
	1		data storage every month end to determine policies that
			will mature or expire in approximately 30 days. On finding a policy that will mature, the debit system: (1)
			closes out the current POLICY STATUS record by
		1	setting STOP DATE equal to MATURITY_DATE - 1
			day; (2) builds a new POLICY STATUS record with
			status = "MAT"; (3) sets START DATE equal to
			MATURITY DATE; (4) sets PENDING STATUS on
		l	the MAT POLICY STATUS record to "P" to indicate
			that the debit system has not yet been notified that the
			maturity has either been paid out or been escheated;
		Ì	and (5) generates an interface extract record for the
			claims system, which is written to a file that will be
			read by the claims system so that a claim can be set up.
	1		On finding a policy that will expire, the debit system:
		1	(1) closes out the current POLICY STATUS record
			by setting the STOP_DATE equal to EXPIRY_DATE
			- 1 day; and (2) builds a new POLICY_STATUS
			record with STATUS = "EXPIR."
DB_LOAN_	None	None	The DB_LOAD_MININT program searches the
MININT			POLICY_LOAN table looking for PPAY, WAIV,
		[	PDUP or PUE policies for loans with INTEREST_
	ł	1	NEXT_DUE_DATE occurring within the next 6
		1	weeks. On finding such a loan, the routine: (1)
			computes annual interest; (2) generates an ADDINT
			transaction; (3) computes CSV and determines if minimum interest is due (and if it is, the routine
	1	1	generates a MININT transaction); and (4) updates the
	1		POLICY LOAN record, setting INTEREST_NEXT_
			DUE DATE to its previous value + 1 year.
DB LOAN	None	None	The DB LOAN PKG program processes the batch
PKG	Hone	None	payments coming from the bank(s) and inserts into the
I NO	1		BILLING ACCOUNT TRANS table indications of
	1	1	matching and non-matching payments. More
	1		specifically, this routine: (1) sorts bank batch files
			containing premium and loan payments for the debit
		1	system; (2) combines the batch information with detail
			System, (2) combines the baten information with detail

Routine Name	Input	Output	Description
			records; (3) detects matching and non-matching payments; (4) creates PAYINT records and updates
		1	MININT records as appropriate; and (5) produces a
			loan interest collection report.
DB_ME_	date;	None	The DB_ME_INTERFACE_PRC routine creates an
INTERFACE_	file DIR		interface file for the matured endowments system 214.
PRC			The routine fetches values from the tables
	ì	1	DEBIT_CLIENT, POLICY_LOAN, POLICY MODAL PREMIUM,
		1	POLICY COVERAGE, POLICY STATUS, and
		1	DB POLICY, and inserts information into the
		1	DB ME RESPONSE table. It also insert records into
		1	POLICY STATUS and
		1	DB ME PAYEE RESPONSE tables. It then writes
			different values into the interface file.
DB_NPAY_	None	None	The DB_NPAY_MININT program identifies the
MININT	1		policies with minimum interest due. More specifically,
		1	this routine looks for any MININT policy loan
			transaction where the ANNUAL_INTEREST_DUE
			DATE is 30 or more days overdue and the transaction
			amount is equal to 0. On finding such a transaction,
		1	the routine checks if the status of the associated policy is still PUE, WAIV, or PDUP. It then sets the
			STOP DATE of that POLICY STATUS record to the
			ANNUAL INTEREST DUE DATE - 1 day.
		1	Further, this routine builds a new POLICY STATUS
	1		record having status = LPNVL. The routine also sets
			the START DATE of the new record to the
		1	ANNUAL_INTEREST_DUE_DATE. It also creates
	1		a POLICY_CSV_TRANSACTION record with
		1	EXTENDED_AMOUNT = 0 and a
			TRANSACTION_TYPE of "E." The routines also
			computes the CSC_AMOUNT from
		1	LOAN_BALANCE minus the MINIMUM INTEREST AMOUNT. The
			DB ERRORS LOG PRC routine handles all errors.
DB PAYMENT	None	None	The DB PAYMENT PKG routine processes
PKG	None	None	notification of payments coming from the bank(s) and
_1160	ĺ		inserts into BILLING ACCOUNT TRANS table
			indications of matching and non-matching payments.
		]	More specifically, this routine: (1) detects matching
		1	and non-matching payments; (2) creates PAYPRM
	1	1	records and HLDPRM records as appropriate; (3)
	1	1	produces a premium payments listing; (4) generates
	1	1	acknowledgement letters for matching payments; and
		1	(5) if a payment takes a policy to its PAID UP DATE, closes out the PPAY
		1	POLICY STATUS record (e.g., sets STOP DATE to
	1		PAID UP DATE - I day) and creates a PDUP
	l		POLICY STATUS record (e.g., sets START DATE
	1	1	to PAID UPDATE). This package consists of the
	1		following routine: DB PAYMENT PROCESS:
	1	1	DB PROCESS PPB; DB MATCHING CHECK;
	1	1	DB PROCESS MISMATCH;

			Desiration
Routine Name	Input	Output	Description DD PROCESS MATCHING: and
			DB_PROCESS_MATCHING; and DB_UPDATE_POLICY_STATUS. The
			DB_GPDATE_POLICY_STATES. The DB_ERRORS_LOG_PRC routine handles all errors.
		27	The DB PAYMENT_PROCESS routine performs the
DB_PAYMENT	None	None	initial checking for the validity of the billing record.
_PROCESS			Checking is performed by comparing a check digit sent
			by the bank(s) with a check digit maintained by the
			debit system. Mismatches are logged in the error file.
			A billing account is valid if it exists in the
			BILLING ACCOUNT table, and is indicated as
			having an active, "A," status.
DD DDOCESS	None	None	This routine retrieves valid policy numbers to be
DB_PROCESS_ PPB	None	None	included in the total modal premium.
DB	None	None	This routine checks whether the total amount received
MATCHING	None	TVOIC	is a whole multiple of the total modal premium
CHECK			amount.
DB PROCESS	None	None	This routine processes non-matching records.
MISMATCH	1.0110		
DB PROCESS	None	None	This routine performs the main processing for
MATCHING			matching records.
DB UPDATE	None	None	The DB_UPDATE_POLICY_STATUS routine
POLICY			updates the POLICY_STATUS to PDUP if the policy
STATUS			has become PDUP (paid up).
DB WAIV	None	None	The DB_WAIV_PTD_UPDATE routine updates the
PTD_			waiver records paid to date. More specifically, this
UPDATE		Į.	routine detects any policies on waiver (e.g. current
	1	1	POLICY_STATUS = "WAIV") where the
			PAID_TO_DATE field should be updated. If the
			PAID_TO_DATE field on a WP policy is equal to or less than the current processing date, the routine
1	ļ		bumps the PAID_TO_DATE on the POLICY table up
			by 1 week (normally this will happen on Monday
	1		night, since WP PAID_TO_DATES occur on
1		1	Mondays). If this policy is attached to a billing
	1	1	account with no premium paying policies, then the
İ			routine also bumps the PAID_TO_DATE on this
			billing account. If the PAID TO DATE on an MDO
			policy is equal to or less than the current processing
			date the routine bumps the PAID TO DATE on the
			POLICY table up by 1 month. If the policy is attached
			to a billing account with no premium paying policies,
			the routine also bumps up the PAID_TO_DATE on
		Į	this billing account. The DB_ERRORS_LOG_PRC
			routine handles all errors.
DB_	D_INPUT_	None	The DB_MONTLY_COUNTS routine maintains
MONTHLY_	DATE		various counts in the COUNT_YTD table for "next
COUNTS		1	month" relative to the input date. More specifically,
			the first day of the next month relative to the input date
1			is computed and the counts are calculated for this first day of the next month. Some of the counts that are
			day of the next month. Some of the counts that are computed include: (1) number of premium paying life
	İ		policies with MDO and WP debit modes; (2) number
			of premium paying health policies with MDO and WP
	1		debit modes; (3) number of life policies with MDO
			debit modes, (3) number of the policies with wind

Routine Name	Input	Output	Description
			and WP debit modes in waiver state; (4) the total premium payment amount for the PAYPRM transactions for MDO and WP debit modes; (5) number of policies of extended term insurance type (ET1) with MDO and WP debit modes; (6) number of policies of reduced paid up (RPU) type with MDO and WP debit modes; (7) number of policies with MDO and WP debit modes; (8) number of policies with MDO and WP debit modes; (9) number of policies with modes and the state of policies with modes and the state of policies with modes; (11) number of policies with MDO and WP debit modes; (10) number of lapsed life policies with MDO and WP debit modes; (11) number of paid up policies with MDO and WP debit modes; (12) total annual premium for premium paying life policies with MDO and WP debit modes; and (13) total annual premium for health policies with MDO and WP debit modes; and (13) total annual premium for health policies with MDO and WP debit modes.

Table III: Batch Reports

Name	Frequency and	Tables	Description
	Criteria	Accessed	
15 Day	Frequency:	DEBIT	The 15 Day Lapse Notice Report identifies
Lapse	weekly.	CLIENT;	polices having delinquent payments (meeting
Notice	Criteria:	POLICY	the 15 day lapse notice criteria). Detailed
	DEBIT_	LOAN_	Information in this report includes: debit client
DB_RPT27	TRANS_TYPE =	TRANS-	information (CLIENT_ID_NUMBER;
	"MININT";	ACTION	LAST_NAME; ADDRESS_LINE_1;
	LAPSE_		ADDRESS_LINE_2; ADDRESS_LINE_3;
	LETTER_SENT		ADDRESS_LINE_4; ADDRESS_STATE_
	= "N";	Į	CODE; ADDRESS_ZIP_CODE); policy loan
	POLICY_	1	transaction information (POLICY_NUMBER;
	STATUS =	1	INTEREST_DUE_ DATE;
	"PPAY."	1	TRANSACTION_AMOUNT). Input
			Parameters include: P_1; DUE_DATE.
Acknow-	Frequency:	POLICY_	The Acknowledgment Letter Report generates
ledgement	weekly.	STATUS;	acknowledgement letters. Detailed information
Letter	Criteria:	POLICY_	in this report includes:
	PAYOR_	PREMIUM_	billing account transaction information
DB_RPT32	TYPE = "P";	BILLING;	(BILLING_ ACCOUNT_NUMBER;
	POLICY_	POLICY_	PREMIUM_PAYMENT_AMOUNT;
	STATUS is	MODAL_	PARTIAL_PAYMENT;
	"PPAY" or	PREMIUM;	PAYMENT_APPLIED_FLAG); billing
	"DTHF";	BILLING_	account payor information
	DEBIT_	ACCOUNT	(PAYOR_ID_NUMBER; PAYOR_TYPE);
	MODE = "WP";	_PAYOR;	POLICY_PREMIUM_BILLING_NUMBER;
	PAYMENT_	DB_	POLICY_STATUS;
	APPLIED_	POLICY;	POLICY_MODAL_PREMIUM; DB policy
	FLAG = "Y";	BILLING	information (POLICY TYPE; DEBIT MODE

Name	Frequency and	Tables	Description
	Criteria  ACK_ LETTER_ SENT = "N"; DEBIT_ TRANS TYPE = "PAYPRM"	Accessed ACCOUNT TRANS	INSURED_CIN). Input parameters include: REP_ID; REP_NAME.
Bank Payment Messages DB_RPT57	Frequency: daily. Criteria: PROGRAM_ID = DB_PAYMENT_ PKG	DB_ ERRORS	The Bank Payment Messages Report generates information indicating the results of processing of payments received from the bank(s). Detailed information presented in this report includes: DB errors information (PROGRAM_ID; PROGRAM_RUN_DATE; ERROR_DESC). Input parameters include: REP_ID; REP_NAME.
HLDPRMs Listing DB_RPT52	Frequency: daily. Criteria: DEBIT_TRANS_ TYPE = "HLDPRM"	BILLING_ ACCOUNT _TRANS	The HLDPRMs Listing Report lists the HLDPRM transactions for the billing accounts. Detailed information presented in this report includes: billing account transaction information: BILLING ACCOUNT NUMBER: DATE RECEIVED; AMOUNT RECEIVED). Input parameters include: none.
Health Policy Due To Expire In The Next Calendar Month DB_RPT46	Frequency: monthly. Criteria: POLICY_TYPE = "p"; EXPIRY_DATE between START_DATE and END_DATE	DB_ POLICY; POLICY_ STATUS	This report identifies health policies due to expire in the next calendar month. Detailed information presented in this report includes: DB Policy Information (POLICY_NUMBER; EXPIRY_DATE; DEBIT_MODE); policy status information (POLICY_STATUS; START_DATE; IND_DATE; END_DATE; START_DATE; END_DATE; SYS_MAX_DATE; MONTH.
Inforce Policies Due To Mature In The Next Calendar Month DB_RPT43	Frequency: monthly. Criteria: POLICY_ STATUS = "PDUP," "WAIV," "PPAY," "DTHF"; MATURITY_ DATE between START_DATE and END DATE	DB_ POLICY; POLICY_ STATUS	This report identifies in force policies due to mature in the next calendar month. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER: MATURITY_DATE; DEBIT_MODE); policy status information (POLICY_STATUS; START_DATE). Input parameters include: AS_OF_DATE.
Lapsed Policies Due To Expire In The Next Calendar Month DB_RPT47	Frequency: monthly. Criteria: POLICY STATUS = "ETI," "DTHF"; EXPIRY DATE between	DB_ POLICY POLICY_ STATUS	This report identifies lapsed policies due to expire in the next calendar month. Detailed information presented in this report includes: DB policy information (POLICY, NUMBER; EXPIRY DATE; DEBIT MODE): policy status information (POLICY_STATUS; START_DATE). Input parameters include: AS, OF DATE.

Name	Frequency and	Tables	Description
	Criteria	Accessed	
	START_DATE and END_DATE		
Lapsed Policies Due To Mature In The Next Calendar Month DB_RPT44	and END DATE Frequency: unknown. Criteria: POLICY_ STATUS should be in "ETI," "RPU," "PUE" or "DTHF"; MATURITY_ YEAR between START_DATE and END DATE	DB_ POLICY POLICY_ STATUS	This report identifies lapsed policies due to mature in the next calendar month. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; MATURITY DATE; DEBIT MODE); policy status information (POLICY_STATUS; START_DATE). Input parameters include: REPORT_DATE.
Loan Billing Statement DB_RPT30	Frequency: weekly. Criteria: PAYOR_TYPE = "P"; DEBIT_TRANS_ TYPE ="ADDINT"; BILLING_ STATEMENT_ SENT <> "Y"	DEBIT_ CLIENT; LOAN_ BILLING; POLICY_ LOAN; POLICY_ LOAN_ TRANS- ACTION	This report presents loan billing statements. Detailed information presented in this report includes: POLICY_NUMBER; NAME; ADDRESS. Input parameters include: none
Loan Interest Collection DB_RPT16	Frequency: daily. Criteria: none.	W_ LOAN_ PAYMENT	This report displays the loan interest details for the policies. Detailed information presented in this report includes: POLICY_NUMBER; SEQUENCE_NUMBER; BATCH_NUMBER; INTEREST_DUE; MINIMUM_INTEREST_DUE; CURRENT_INTEREST_PAID. Input parameters include: none
Loan Payment Report DB_RPT11	Frequency: on request. Criteria: DEBIT_TRANS_ TYPE in "PAYINT," "PAYPRIN," "UNERNINT," "ADDINT," "NEWINT," "MININT"; DEBIT_MODE in "MDO," "WP"	DB_ POLICY; POLICY_ LOAN_ TRANS- ACTION.	This report generates information on loan payment. Detailed information presented in this report includes: POLICY NUMBER; DATE_EFFECTED; DATE_RECEIVED; TRANSACTION_TYPE; TRANSACTION_AMOUNT. Input parameters include: START_DATE; END_DATE.
Loan Payoff Without Refund DB_RPT31	Frequency: undefined. Criteria: STOP_DATE = given date, e.g., "12/31/2099"; PAYOR_TYPE =	DEBIT_ CLIENT	This report prints out the loan payoff letters for the selected policies, stating that the policy loans have been paid off. Detailed information presented in this report includes: CURRENT_DATE; POLICY_CLIENT_NAME; CLIENT_ADDRESS; POLICY_VUMBER; INSURED_NAME; Letter Content (stating that the loan

Name	Frequency and Criteria	Tables Accessed	Description
	"P"		has been paid off in full). Input parameters include: POLICY_NUMBER.
MDO Coupon Book Listing DB_RPT53	Frequency: undefined. Criteria: ACCOUNT STATUS = "A"; PAYOR_TYPE = "P"; POLICY_ STATUS = "PPAX"; DEBIT_MODE = "MDO"; NEXT_COUPON BOOK_DATE <= SYSDATE + 59; PAYOR_TYPE = "P"	DEBIT_ CLIENT POLICY_ MODAL_ PREMIUM POLICY PREMIUM BILLING BILLING ACCOUNT PAYOR BILLING ACCOUNT	This report prints the billing account details having NEXT_COUPON_BOOK_DATE within two months previous to the current date. Detailed information presented in this report includes BILLING_ACCOUNT_NUMBER; PAID_DATE; NAME; COUPON_DATE. Input parameters include: none.
MDO Coupon Request DB_RPT41	Frequency: weekly. Criteria: ACCOUNT STATUS = "A"; PAYOR_TYPE = "P"; POLICY STATUS = "PPAY"; DEBIT_MODE = "MDO"; NEXT_COUPON BOOK_DATE <= TRUNC ((SYSDATE) + 59); PAYOR_TYPE = "P"	DEBIT CLIENT; POLICY MODAL PREMIUM; POLICY PREMIUM; BILLING; BILLING ACCOUNT PAYOR; BILLING ACCOUNT; POLICY STATUS	This report prints the billing account details having NEXT_COUPON_BOOK_DATE within two months previous to the current date. Detailed information presented in this report includes: BILLING_ACCOUNT NUMBER; POLICY_NUMBER; PAID_DATE; LAST_NAME; ADDRESS_LINES 1-4; CITY; STATE_CODE; ZIP_CODE; COUPON_DATE; PAYOR_ID_NUMBER; MODAL_PREMIUM_Input parameters include: BILLING_ACCOUNT_NUMBER; BILLING_ACCOUNT; COUPON_BOOK_DATE.
Minimum Interest Notice For Waiver DB_RPT28	Frequency: weekly. Criteria: DEBIT_TRANS_ TYPE = "MININT"; INTEREST_DUE_ DATE >> TRUNC(AS_OF_ DATE-5) + 35; INTEREST_DUE_ DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE <= DATE	DEBIT CLIENT POLICY_ST ATUS LOAN_BIL LING POLICY_L OAN_TRA NSACTION	This reports presents information pertaining to minimum interest for waivers. Detailed information presented in this report includes: CURENT_NAME; CLIENT_NAME; CLIENT_NAME; CLIENT_ADDRESS, POLICY_NUMBER; INSURED_NAME; MINIMUM_POLICY_LOAN_INTEREST DUE_DATE; Letter Content (stating that the amount of minimum loan interest must be paid within 31 days of the interest due date or policy will lapse). Input parameters include: AS_OF_DATE.

Name	Frequency and	Tables	Description
	Criteria	Accessed	
Minimum Premium Due For Premium Paying Policies DB_RPT29	POLICY STATUS = "WAIV"; PS_POLICY_ STATUS = "DTHF" and PREVIOUS POLICY_ STATUS = "WAIV" Frequency: weekly. DEBIT_TRANS_ TYPE = "MININT"; INTEREST_DUE_ DATE between 32 and 45 days from AS_OF_DATE; POLICY_ STATUS in "PPAY," "PDUP," "PUE,"	DEBIT_ CLIENT; POLICY_ LOAN_ TRANS- ACTION; LOAN_BIL LING; POLICY_ STATUS	This report provides letters stating that the minimum loan interest must be paid within 31 days of the interest due date or the policy will lapse. Detailed information presented in this report includes: debit client information (CLIENT_ID_NUMBER; LAST_NAME; ADDRESS_LINE_1; ADDRESS_LINE_2; ADDRESS_LINE_3; ADDRESS_LINE_3; ADDRESS_LINE_4; ADDRESS_STATE_CODE; ADDRESS_ZITE_CODE; ADDRESS_ZITE_CODE; Dolicy loan transaction information (POLICY_NUMBER; INTEREST_DUE_DATE). Input parameters include: AS_OF_DATE.
New Account Notice Letter DB_RPT08	"DTHF" Frequency: not defined. Criteria: PAYOR_TYPE ="p"; DEBIT_MODE = "WP"; POLICY_ STATUS = "PPAY"	DB_ POLICY; BILLING_ ACCOUNT PAYOR; POLICY_ STATUS; POLICY_ MODAL_ PREMIUM; POLICY_ PREMIUM BILLING; BILLING ACCOUNT.	This report provides new account notice letters. Detailed information presented in this report includes: billing account information (BILLING ACCOUNT NUMBER; PAID TO DATE); DB policy information (POLICY_TYPE; DEBIT_MODE; INSURED_CIN); billing account payor information (PAYOR, ID_NUMBER; PAYOR_TYPE); policy premium billing information (POLICY_NUMBER); POLICY_STATUS; MODAL_PREMIUM. Input parameters include: REP_ID; REP_NAME.
Notice of Lapsed MDO Premium Due DB_RPT24	Frequency: weekly. Criteria: POLICY_ STATUS = "PPAY"; DEBIT_MODE = "MDO"; PAYMENT_APP_ LIED_FLAG = "Y"; LATE_NOTICE_ SENT_="N"	DB_ POLICY; BILLING_ ACCOUNT PAYOR; POLICY_ STATUS; BILLING_ ACCOUNT _TRANS; POLICY_ PREMIUM_ BILLING;	This reports provides notice of lapsed MDO premium due. Detailed information presented in this report includes: billing account information (PARTIAL_PAYMENT_BALANCE); DB policy information (POLICY_TYPE; DEBIT_MODE; INSURED_CIN); billing account payor information (PAYOR_TYPE); policy premium billing information (POLICY_VIMBER); policy status information (POLICY_STATUS; START_DATE); billing account transaction information information

Name	Frequency and Criteria	Tables Accessed	Description
		BILLING ACCOUNT; DEBIT CLIENT	(BILLING_ACCOUNT_NUMBER; PAID_ TO_DATE; PREMIUM_PAYMENT_AMOUNT; PAYMENT_APPLIED_FLAG); debit client information (ADDRESS_LINE_1; ADDRESS_LINE_2; ADDRESS_LINE_3; ADDRESS_LINE_4; ADDRESS_CITY; ADDRESS_STATE_CODE; ADDRESS_ZIP_CODE). Input parameters include: REP_ID; REP_NAME.
Notice Of Lapsed Weekly Premium Due DB_RPT25	Frequency: weekly. Criteria: POLICY_ STATUS = "PPAY." "DTHF": DEBIT_MODE = "WP": PAYMENT_ APPLIED_FLAG = "Y": LATE_NOTICE_ SENT = "N"	DB POLICY; BILLING ACCOUNT PAYOR; POLICY STATUS; BILLING ACCOUNT TRANS; POLICY PREMIUM BILLING; BILLING ACCOUNT; DEBIT CLIENT.	This report provides notice of lapsed weekly premiums due. Detailed information presented in this report includes: billing account information (PARTIAL PAYMENT BALANCE); DB policy information (POLICY TYPE; DEBIT_MODE; INSURED_CIN; PAID_UP_DATE); billing account payor information (PAYOR_TYPE); policy premium billing information (POLICY NUMBER); Policy status information (POLICY STATUS; START DATE) billing account transaction information (BILLING_ACCOUNT_NUMBER; PAID_TO_DATE; PREMIUM_PAYMENT_AMOUNT; PAYMENT_APPLIED_FLAG); debit client information (LAST_NAME; ADDRESS_LINE_1; ADDRESS_LINE_1; ADDRESS_LINE_1; ADDRESS_LINE_1; ADDRESS_LINE_1; ADDRESS_LINE_2; ADDRESS_STATE_CODE; ADDRESS_ZIP_CODE). Interpretable include: REPORT_IO_REPORT_NAME.
PAYINIT Transac- tions - Not Applied DB_RPT59	Frequency: not defined. Criteria: DEBIT_TRANS_ TYPE= "PAYINT"; TRANSAC- TION_AMOUNT = 0	POLICY_ LOAN_ TRANS- ACTION;	This report identifies PAYINIT transactions not applied. Detailed information presented in this report includes policy loan transaction information, including: POLICY NUMBER; DEBIT_TRANSACTION_TYPE; DATE_RECEIVED; AMOUNT_RECEIVED; TRANSACTION_AMOUNT_Input parameters include: none.
Policies Lapsed For Non- payment Of Premium DB_RPT09  Policies Not	Frequency: weekly. Criteria: POLICY_ STATUS equals "PPAY"  Frequency:	DB_ POLICY; POLICY_ STATUS; POLICY_ PREMIUM_ BILLING	This report identifies policies lapsed for non- payment of premium. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; PAID_TO_DATE; DEBIT_MODE). Input parameters include: REPORT_ID; REPORT_NAME; SYSTEM_MAXIMUM_ DATE; INC_DATE. This report identifies policies in which the
Premium	weekly.	POLICY;	premium has not been paid for 31 days.

Name	Frequency and Criteria	Tables Accessed	Description
Paid for 31 Days DB_RPT05	Criteria: POLICY_ STATUS equals "PPAY"	POLICY_ STATUS; POLICY_ MODAL_ PREMIUM	Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; PAID TO_DATE; DEBIT_MODE; DATE_LAST_PAID); policy modal premium information (MODAL_PREMIUM). Input parameters include: REP_ID; REP_NAME.
Policies Overdue For Minimum Interest Payment DB_RPT39	Frequency: weekly. Criteria: POLICY_ STATUS in "PPAY." "WAIV," "PDUP," "PUE," or equals "DTHF"; DEBIT_TRANS_ TYPE equals MININT	DB_ POLICY; POLICY_ STATUS; POLICY_ LOAN_ TRANS- ACTION	This report presents information regarding policies overdue on account of overdue minimum interest payment. Detailed information presented in this report includes: DB policy information (DBBIT_MODE); Policy Loan Transaction information (POLICY_NUMBER; INTEREST_DUE_DATE; MINIMUM_INTEREST]; policy status information (POLICY_STATUS; START_DATE). Input parameters include: P_REP_ID; P_REP_NAME.
Policies On Waiver Due To Mature DB_RPT37	Frequency: monthly. Criteria: POLICY_ STATUS equals "WAIV"	DB_ POLICY POLICY_ STATUS	This report provides information regarding policies on waiver due to mature. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; MATURITY_DATE; DEBIT_MODE) policy loan transaction information (POLICY_NUMBER; INTEREST_DUE_DATE; MINIMUM INTEREST); policy status information (POLICY_STATUS; START_DATE). Input parameters include: P REP_ID: P REP_NAME
Policy Modal Premium Decrease Notification DB_RPT14	Frequency: not defined. Criteria: STOP DATE ≈ predefined date, e.g., "12th Dec 2099"	POLICY_ PREMIUM_ BILLING; DB_ POLICY; POLICY_ STATUS; DEBIT_ CLIENT	This report provides notification of a decrease in policy modal premium. Detailed information presented in this report includes: BILLING_ACCOUNT_NUMBER; BILLING_PERIONS_PERIO
Premium Payments Report (DB_RPT10	Frequency: daily. Criteria: none.	W_ BATCH_ PAYMENT	This report identifies premium payments. Detailed information presented in this report includes: W BATCH_PAYMENT information (BILLING_ACCOUNT_NUMBER; CHECK_DIGIT_DATE_PROCESSED; BATCH_NUMBER; SEQUENCE_NUMBER_5; COMPANY_CODE_2; PREMIUM_DUE; PREMIUM_DUE; PREMIUM_DUE; CURRENT_AMOUNT_PAID; CURRENT_AMOUNT_PAID. Input parameters include: REP ID; REP NAME.

Name Rider	Frequency and Criteria Frequency:	Tables Accessed DB_ POLICY:	Description  This report presents information pertaining to rider expiry date or YOC (year of change)
Expiry Date Or "YOC" Coming Due Date DB_RPT01	monthly. Criteria: COVERAGE SEQUENCE greater than 1; Order by DEBIT MODE in descending order	POLICY_ COVER- AGE	coming due date. Detailed information presented in this report includes: DB policy information (POLICY_NUMBER; DEBIT_MODE; policy coverage information (COVERAGE_SEQUENCE; PLAN_CODE; STOP_DATE). Input parameters include: PRESENT_DATE.
WP Reminder Notice DB_RPT33	Frequency: daily. Criteria: PAYOR_TYPE = "p"; DEBIT_MODE = "WP"; POLICY_ STATUS ="PPAY"; PARAMETER_ APPLIED_FLAG ="Y"; number of modal premiums paid >= 13; DEBIT_TRANS_ TYPE = "PAYPRM"	DB_ POLICY; POLICY_ STATUS; POLICY_ MODAL_ PREMIUM; POLICY_ PREMIUM; BILLING; BILLING ACCOUNT TRANS; BILLING ACCOUNT PAYOR; BILLING ACCOUNT.	This report provide weekly premium (WP) reminder notices. Detailed information presented in this report includes: DB policy information (INSURED_CIN; POLICY_TYPE; DEBIT MODE); POLICY STATUS information (POLICY_STATUS); policy modal premium information (MODAL_PREMIUM); policy premium billing information (POLICY_NUMBER); billing account transaction information (BILLING_ACCOUNT_NUMBER; PAID_UP_DATE; PREMIUM_PAYMENT_AMOUNT; PAYMENT_APPLIED_FLAG); billing account payor information (PAYOR ID NUMBER; PAYOR TYPE); billing account information (CHECK_DIGIT). Input parameters include: REP_ID; REP_NAME.

Table IV: Exemplary Screen Descriptions

Screen Name	Tables Accessed	Description
Policy Data Screen (DB POLCY) (FIG. 11)	DB_POLICY, DEBIT_CLIENT	The Policy Data Screen pulls up policy details in response to input of a policy number. The "UPDATE INSURED NAME" and "UPDATE BENEFICIARY NAME" buttons on the screen allow the user to modify the beneficiary and insured names, respectively. The "RESTORE LOST POLICY" button allows the user to add policies in case the policy details are not found.
Policy Coverage (DB_POLCV) (FIG. 12)	POLICY_ COVERAGE	The Policy Coverage Screen allows the user to add or modify coverage record details for a policy in response to input of a policy number. The "Coverage Sequence" listed on the screen is generated by the insurance processing system 102 for each coverage record.
Policy Status Screen (DB_POLST) (FIG. 13)	POLICY_ STATUS	The Policy Status Screen retrieves the status of a policy for various date ranges. Further, the user can query on an existing policy number to retrieve status information pertaining to the policy. Further, the

Screen Name	Tables Accessed	Description
		"GENERATE REFUND" button allows the user to generate a premium refund for policies that have become paid up. The "REVERSE REFUND" button allows the user to reverse the refund operation.
Policy Summary (DB_POLSU) (FIG. 14)	DB_POLICY	The Policy Summary Screen provides summary details for a policy in response to the input of a valid policy number. In one embodiment, this screen does not permit users to modify the data presented on the screen.
Non Converted Policies DB_POLNC (FIG. 15)	POLICIES_NOT_ CONVERTED	The Policies Not Converted Screen presents information pertaining to policies that are not converted into the Debit system. In one embodiment, the polices are stored in a representation 115 of an "old" mainframe system (such as the "previous system" 114 shown in FIG. 1).
Policy Maturity Year Screen (DB_MATUR) (FIG. 16)	DB_POLICY	The Policy Maturity Year Screen allows a user to make corrections to maturity dates for policies. More specifically, this screen lists policies having blank (i.e., unspecified) maturity dates because the data was lost on the previous system 114. Users may query on "Maturity Year," "Policy Begin," or "Policy End." A user may view the maturity dates corrected by a particular user by querying on the user ID and placing a check in the "Corrected Maturity Dates" checkbox.
Billing Account Information Screen DB_BLACT (FIGS. 17 and 18)	BILLING_ ACCOUNT, POLICY_ PREMIUM_ BILLING	The Premium Billing Account Screen presents billing account details in response to input of Account number, Account status, Paid to Date, Discount Code, or Policy Type (e.g., WP, MDO). This screen enables the user to add policies or remove policies for a billing account. Further, this screen enables a user to add a new billing account.
Billing Account Policy Association DB_PREBG (FIG. 19)	POLICY_ PREMIUM_ BILLING	The Billing Account Policy Association Screen shows the association between a billing account and its policies. The screen enables users to query on either policy number, billing account number, or both. Further, this screen allows users to add policies or remove policies associated with a particular billing account.
Billing Account Transaction (DB_BLTRN) (FIG. 20)	BILLING_ACCO UNT_TRANS	The Billing Account Transaction Screen permits the user to fetch billing account transaction details, as well as enter new payment transactions, by entering a valid billing account number. When the user enters the "Amount Received" and invokes the "APPLY PAYMENT" button, the system calculates the number of modal premiums corresponding to the "Amount Received" and "Premium Payment" variables. The system adds a balance amount (if any exists) to the partial payment field. When the partial payment reaches one modal premium, the system creates a record in the BILLING_ACCOUNT_TRANS table with transaction type SYSPRM.
Policy Modal	POLICY	The Policy Modal Premium Information Screen

Screen Name	Tables Accessed	Description
Premium	MODAL	retrieves modal premiums for policies in a specified
Information (DB_MODPR) (FIG. 21)	PREMIUM	date range. The screen allows a user to query on an existing policy number and then add a new modal premium, as well as its start date.
Premium Refund Information (DB_PRREF) (FIG. 22)	PREMIUM_REF UND	The Premium Refund Information Screen allows a user to view and make premium refunds. In operation, the screen enables a user to query on a policy number and then generate a refund or reverse a refund by pressing the "GENERATE REFUND" and "REVERSE REFUND" buttons, respectively. Further, the screen gives the user the option to apply the balance paid up amount to other policies or to refund it. If any premium payment exists, then the system will call the Billing Account Transaction Screen and generate a record there.
Premium Waiver Screen (DB PRWAI) (FIG. 23)	PREMIUM_ WAIVER	The Premium Refund Information Screen retrieves policies along with the date ranges for which the policies are in waiver state. The user can instruct the system to generate a refund for premiums paid during the waiver period by invoking the "Generate Refund" button. In response, the system generates a Refund Sequence No. for that policy. A user may instruct the system to perform a reverse refund transaction (if needed) by invoking the "Reverse Refund" button. Further, a user can terminate the waiver status for a policy by invoking the "Terminate Waiver" button. A user may also terminate a waiver by pressing "Reverse Termination" button.
Loan Maintenance Screen (DB_LOANP) (FIGS. 24 and 25)	POLICY LOAN, DEBIT_CLIENT; POLICY LOAN_ TRANSACTION	The Loan Maintenance Screen retrieves the loan transactions for a policy in response to entry of a valid policy number. A user may view the loan details (such date due, minint, etc.) by pressing the arrow button (in lower right of screen). Further, the screen allows a user to add a new loan for the displayed policy. Further still, this screen enables a user to modify the "Payor Name" and "Address." In this particular exemplary application, a user may also modify the subscriber's Florida Name and Address.
Loan Quote and Approval Quote (DB_LNQOT) (FIG. 26) (DB_LNAPP) (FIG. 27)	LOAN_ APPROVAL	The Loan Approval and Loan Quote Screens allow the user to process new loans. More specifically, the screens enable a user to query on an existing policy number to view the loan details. In order to process a new loan, the screen prompts the user to enter a policy number, loan date, and loan amount. In one embodiment, the loan amount should be less than the cash surrender value for the policy. When the user presses the "Loan Approval" button, the system approves or denies the loan (e.g., depending on the CSV value). The screen indicates whether the system has approved or denied the loan by posting a ""y" or "N"; symbol in the "Approval Indicator" field.
Policy Loan Master (DB_PLOAN) (FIG. 28)	POLICY_LOAN	The Policy Loan Screen retrieves loan details for the policies. This screen allows the user to modify the interest rates applicable to the loans.

Screen Name	Tables Accessed	Description
Cash Surrender	DB_POLICY	The Cash Surrender Quote Screen allows the user to
Quote		query on a valid policy number to retrieve the Cash
(DB_CSVQU)		Surrender Value (CSV) details for the corresponding
(FIG. 29)		policy. In one embodiment, the screen does not
		permit users to modify any of the fields on the
		screen.
Cash Surrender	POLICY CSV	The Cash Surrender Value Screen allows users to
Value	TRANSACTION	generate and reverse cash surrender value
(DB_CSVRV)		transactions for an identified policy. The screen
(FIG. 30)		permits the user to query on an existing policy
		number. By invoking the "Cash Surrender" button,
		the system calculates the CSV amount for the
		identified policy. More specifically, to calculate the
	Ì	CSV amount for the policy, the system fetches the
		ISSUE_AGE, PLAN_CODE, RATE_BOOK, and
		UNITS values from the POLICY_COVERAGE
	ĺ	table. The system uses these values, in conjunction
	1	with the CSV_RATE table, to compute the CSV
		amount. The user may reverse the surrendered policy
		by activating the "Reverse" button.
CSV Rate	CSV_RATE	The CSV Rate Screen retrieves and displays the Cash
(DB_CSVRT)		Surrender Value factor table. The system calculates
(FIG. 31)		the CSV amount for a policy using this CSV factor
	1	table. In one embodiment, the screen does not permit
		the user to add or modify the rate books.
Plan Codes	PLAN_CODES	The Plan Code Screen retrieves the plan codes and
(DB_PLCOD)		the corresponding plan descriptions from the data
(FIG. 32)	1	storage 206. The screen allows a user to add or
		modify plan codes.
Policy CSV	POLICY_CSV_	The Policy CSV Transaction Screen retrieves the
Transaction	TRANSACTION	CSV transaction records for a policy. The screen
DB_CSVTR		permits a user to add a new CSV transaction, or to
(FIG. 33)		modify an existing CSV transaction.
Extended Values	DB_POLICY	The Extended Values Main Screen allows a user to
Main Screen		modify the policy type to an Extended Term
(DB_EXTVA)		Insurance (ETI) type or a Reduced Paid Up (RPU)
(FIG. 34)		type. In operation, the user calls up a policy by
		entering a valid policy number. The system
		calculates the CSV amount and the number of years
		of extended term or the reduced paid up coverage
		available from that amount. The system then adds
		this information to the CSV_TRANSACTION table
	[	and changes the status of the policy to ETI or RPU
		depending on whether the Extended Term Insurance
		or Reduced Paid Up options are selected,
	POLICE COST	respectively.
Extended Term	POLICY_CSV_	The Extended Term Insurance Screen retrieves the
Insurance	TRANSACTION	details of an Extended Term Insurance-type policy
(DB_REVEX)		when the user inputs a valid policy number of the
(FIG. 35)	1	LPNVL or ETI type. The screen permits the user to
		restore the status to its prior state by activating the
		"Reverse" button, but only if the policy was
	+	premium-paying or in waiver state.
Reduced Paid Up	POLICY_CSV_	The Reduced Paid Up Screen retrieves details of a

Screen Name	Tables Accessed	Description
Screen (DB_REVRP) (FIG. 36)	TRANSACTION	RPU-type policy in response to the user inputting a valid policy number of the RPU-type. In one embodiment, the screen permits the previous status of the policy to be restored by pressing the "Reverse" button, but only if the policy was premium-paying or in waiver state.
Extended Rate (DB_EXTRT) (FIG. 37)	EXT_RATE	The Extended Rate Screen retrieves the extended rate factor table used during conversion of a policy to ETI-type. In one embodiment, the screen does not permit the user to add or modify the rate book.
Access Role Entry Screen (DB_ACROL) (FIG. 38)	DB_ACCESS_ ROLE	The Access Role Entry Screen permits an administrator to control access to the interface screens. More specifically, this screen pulls up a list of roles and privileges currently applicable for the screens. The screen permits the user to add, modify or delete access roles and privileges for the screens.
Error Message Screen (DB_ERDEF) (FIG. 39)	DB_ERROR_ MESSAGE_DEF	The Error Message Entry Screen retrieves and displays error messages (along with associated error types and error numbers) generated by the debit system's screens.
Report Definition Screen (DB_RPTDF) (FIG. 40)	DB_REPORT_ DEF	The Report Definition Screen retrieves and displays valid report IDs and associated report names and run modes (specifying whether report is online or batch). The screen permits a user to add, modify or delete a report.
Form Definition Screen (DB_SCREN) (FIG. 41)	DB_SCREEN_ DEF	The Form Definition Screen retrieves all of the valid screen IDs and screen names in the debit system from the data storage 206. The screen permits a user to add, modify or delete ID and name information.
Actuarial Extracts Request Screen (DB_ACEXF) (FIG. 42)	None	The Actuarial Extracts Screen allows a user to generate an actuarial extract file for use by actuarial personnel within an organization. In operation, the user enters the date and location of the extract file. The user then creates the actuarial extracts file by pressing the "Generate Extracts" button.
Error Log (DB_ERROR) (FIG. 43)	DB_ERRORS	The Error Log Screen retrieves the details of the errors generated during execution of the batch programs (which are trapped in the DB_ERRORS table). The screens allows a user to query on the batch "Program name," "Rum by," or "Rum date" fields to retrieve the error messages.

Table V: On-Line Reports

Name	Frequency & Criteria	Tables	Description
Changes to Policies on Waiver	Frequency: daily. Criteria: not defined.	POLICY_ STATUS	This report presents information on changes to policies on waiver. Detailed information in this report includes: POLICY_NUMBER; START_DATE; STOP_DATE. Input
DR RPT36	1		parameters include: FROM_DATE;

Name	Frequency & Criteria	Tables	Description
			TO DATE.
Checklist of Policies Cash Surrendered DB_RPT07	Frequency: daily. Criteria: not defined.	DB_ POLICY; POLICY_ CSV_ TRANS- ACTION; POLICY_ST ATUS	This report provide a checklist concerning policies that have been cash surrendered. Detailed information in this report includes: policy cash surrender value transaction information (POLICY_NUMBER; CSV_EFFECTIVE_DATE; INTEREST_REFUND/DEDUCT; PREMIUM_REFUND/DEDUCT; PREMIUM_REFUND/DEDUCT; SURRENDER_AMOUNT; LOAN_BALANCE_AMOUNT; DEBIT_MODE; POLICY_START_DATE. Input parameters include: START_DATE. STOP DATE.
Debit PINQ Report	Frequency: daily Criteria:	DB_ POLICY; DEBIT_	The Debit PINQ Report includes the following information: debit policy information (POLICY NUMBER; POLICY ISSUE DATE;
DB_PINQ	not defined	CLIENT; POLICY_ COVER- AGE; POLICY_ LOAN; POLICY_ MODAL_ PRIMIUM; POLICY_ STATUS	POLICY PAID UP DATE; POLICY EXPIRY DATE; DATE LAST PAID, PAID TO DATE; POLICY MATURITY DATE; MATURITY REPORTED; POLICY TYPE; DEBIT MODE; INDUSTRIAL FLAG; YEAR OF CHANGE DATE; INSURED CIN; VALUATION CLASS; BENEFICIARY CIN; APPLICANT AGE RANGE; MATURITY EXPIRY YEAR; CONVERSION STATUS; policy status information (POLICY STATUS; POLICY START DATE; debit client information (LAST NAME; TAX IDENTIFICATION NUMBER; ADDRESS STATE CODE; MODAL PREMIUM; policy coverage information (PLAN CODE; SEX RELATIONSHIP; AMOUNT OF INSURANCE; ULTIMATE FACE AMOUNT; ISSUE AGE; policy loan information (INTEREST RATE; INTEREST NEXT DUE DATE). Input parameters include: MATURITY YEAR
Extended Value Report DB_RPT35	Frequency: daily. Criteria: not defined.	POLICY_ CSV_ TRANS- ACTION; POLICY_ STATUS	This report provides information pertaining to extended value-related matters. Detailed information presented in this report includes: policy CSV transaction information (POLICY_NUMBER; CSV_EFFECTIVE_DATE; CSV_TRANSACTION_TYPE; SURRENDER_AMOUNT; EXTENTION_TERM_VEAR; EXTENTION_TERM_DAYS; REDUCED PAID UP AMOUNT);

Name	Frequency & Criteria	Tables	Description
			POLICY_STATUS. Input parameters include: FROM DATE; TO DATE.
Invalid Billing Accounts DB_RPTI7	Frequency: daily. Criteria: not defined.	BILLING_ ACCOUNT	This report provides information pertaining to invalid billing accounts. Information presented in this report includes: BILLING_ACCOUNT_NUMBER; DEBIT MODE; PAID_TO_DATE; PARTIAL_PAYMENT_BALANCE. Input parameters include: none
Lapses And Revivals With Loans DB_RPT18	Frequency: daily. Criteria: not defined.	POLICY_ STATUS; POLICY_ LOAN_ TRANS- ACTION; DB_POLICY	This report provides information concerning lapses and revivals associated with loans. Detailed information presented in this report includes: policy status information (POLICY_STATUS; POLICY_STATUS; POLICY_STAP_DATE; POLICY_STOP_DATE); DB policy information (POLICY_UMBER; DEBIT_MODE); policy loan transaction information (TRANSACTION_EFFECTIVE_DATE; TRANSACTION_AMOUNT). Input parameters include: EFFECTIVE_FROM_DATE; EFFECTIVE_TO_DATE.
Loan ADDINT Transactions Listings DB_RPT48	Frequency: daily. Criteria: not defined.	POLICY_ LOAN_ TRANS ACTION.	This report presents loan ADDINT transactions listings. Detailed information presented in this report includes: policy loan transaction information (POLICY_NUMBER; DEBIT_TRANSACTION_TYPE; TRANSACTION_EFFECTIVE_DATE); TRANSACTION_AMOUNT. Input parameters include: EFFECTIVE_FROM_DATE; EFFECTIVE_TO_DATE.
Loan Activity Report DB_RPT21	Frequency: daily: Criteria: not define.	POLICY_ LOAN_ TRANS- ACTION;	This report presents loan activity report information. Detailed information presented in the report includes; policy loan transaction information (POLICY_NUMBER; DEBIT_TRANSACTION_TYPE; TRANSACTION_EFFECTIVE_DATE; DATE. OF RECEIVE; TRANSACTION_AMOUNT). Input parameters include: EFFECTIVE_FROM_DATE; EFFECTIVE_TO_DATE; FROM_POLICY; TO POLICY.
WP Policies Loan Payment Statement DB_RPT49	Frequency: on request. Criteria: not defined.	POLICY_ LOAN_ TRANS- ACTION	This report presents a WP policies loan payment statement. Detailed information presented in this report includes: BEGINNING_BALANCE; BEGINNING_COUNT; NEW_LOANS; REINSTATED; INTEREST; ADJUSTMENTS; LAPSES; CURRENT_WEEK_BALANCE; ENDING_COUNT. Input parameters include:

Name	Frequency & Criteria	Tables	Description
	Z SIRCIM		START DATE; END DATE.
Loan Payment Report DB_RPT11	Frequency: on request. Criteria: DEBIT TRANS_ TYPE in "PAYINT," "PAYPRIN," "UNERNINT," "ADDINT," "NEWINT," "MININT"; DEBIT MODE in "MDO," "WP"	DB_ POLICY; POLICY_LO AN_ TRANS- ACTION	This reports presents loan payment information. Detailed information presented in this report includes: POLICY NUMBER; DATE EFFECTED: DATE_RECEIVED; TRANSACTION_TYPE; TRANSACTION_AMOUNT. Input parameters include: START_DATE; END_DATE
Loan Payoff List	Frequency: weekly. Criteria:	POLICY_ LOAN; POLICY_	This reports presents a loan payoff list. Detailed information presented in this report includes: POLICY_NUMBER; PAY OFF DATE;
DB_RPT22	Debit_Trans_ Type = "PAYPRIN"	LOAN_ TRANS- ACTION	PRINCIPAL_PAYMENT_AMOUNT; UNEARNED_INTEREST; BALANCE_AMOUNT_BEFORE_PAYMEN T. Input parameters include: FROM_DATE; TO_DATE;
MDO/WP Excess Loan Report DB_RPT58	Frequency: on request. Criteria: COVERAGE SEQUENCE = 1; POLICY_ STATUS in "PPAY,"	POLICY LOAN; DB_ OLICY; POLICY_ COVER- AGE; POLICY_ STATUS;	This reports presents information concerning MDO/WP excess loan matters. Detailed information presented in this report includes: POLICY_NUMBER; RATE; PLAN_CODE; ISSUE_AGE; ISSUE ADATE; INSURANCE_AMOUNT; CSV_AMOUNT; LOAN_AMOUNT; EXCESS_AMOUNT; INT_RATE; INT_YR, MAT_YR. Input parameters include: AS_OF_DATE.
Minimum Interest Due Report DB_RPT19	"WAIV," "PDUP" Frequency: on request. Criteria: POLICY STATUS in "PPAY," "WAIV," "PDUP," "PIE," "DTHE"; INTEREST_D UE_DATE < SYS_DATE; DEBIT_TRAN S_TYPE = "MININT"	POLICY_ STATUS; DB_ POLICY; POLICY_ LOAN_ TRANS- ACTION	This report includes the following detailed information: POLICY_TYPE; POLICY_NUMBER; INTEREST_DUE_DATE; MINIMUM_INTEREST_AMOUNT. Input parameters include: none

Name	Frequency	Tables	Description
rame	& Criteria	1 40.00	
New and Additional Loans Reports (DB_RPT20	Frequency: on request. Criteria: DEBIT_ TRANS- ACTION_ TYPE ="NEW- LOAN"	DB_ POLICY; POLICY_ LOAN; POLICY_ LOAN_ TRANS- ACTION	This report provides information regarding new additional loans. Detailed information presented in this report includes: POLICY_NUMBER; ANNIVERSARY_DATE; PREVIOUS_LOAN_BALANCE; NEW_LOAN_BALANCE; INTEREST_RATE. Input parameters include: START_DATE; END_DATE.
Paid up Policy Notification DB_RPT15	Frequency: on request. Criteria: STOP_DATE = predefined date, e.g., 12-Dec-2099; START_ DATE, PAID_ UP_DATE <= SYSDATE; PDUP_LET- TER_SENT = "N"	DEBIT_ CLIENT; POLICY_ MODEL_ PREMIUM; DB_ POLICY; POLICY; POLICY_ STATUS; POLICY_ COVER- AGE; POLICY_ PREMIUM_ BILLING; BILLING	This report provides notification of a paid up policy. Detailed information presented in this report includes: NAME, ADDRESS; POLICY NUMBER: ACCOUNT_NUMBER: NAME_OF_INSURED; AMOUNT_OF_INSURANCE; ISSUE_AGE; POLICY_DATE; PAID_UP_DATE; PREMIUM; OUT-STANDING_LOAN_AMOUNT_AS_OF_DATE. Input parameters include: none
Paid Up Refund Report DB_RPT06	Frequency: on request. Criteria: REFUND_ TYPE = "PUP"	ACCOUNT_ PAYOR DB_ POLICY; PREMIUM_ REFUND	This report provides information regarding paid up refunds. Detailed information presented in this report includes: POLICY_NUMBER; PAID_UP_DATE; REFUND_AMOUNT; Total. Input parameters include: START_DATE; STOP_DATE.
Payments From Bank(s) - Received & Applied DB_RPT60	Frequency: on request. Criteria: none	W_BATCH_ PAYMENT; BILLING_ ACCOUNT_ TRANS	This report presents information regarding payments received from the banks, and subsequently applied. Detailed information presented in this report includes: ACCOUNT NO; PREMIUM, DUE; AMOUNT_MODAL_PREMIUMS; ITRANSACTION_TYPE; PAID_TO_DATE; PREMIUM_PAYMENT; PARTIAL_PAYMENT; PAYMENT_STATUS. Input parameters include: none
Policies Going On Waiver During a Requested Time Period DB_RPT40	Frequency: on request. Criteria: WAIVER_ START_ DATE = Max(WAIVER STATE_	PREMIUM_ WAIVER	This report displays the policies going on waiver during a specified input date range for WP and MDO debit modes. Detailed information presented in this report includes: POLICY_NUMBER; WAIVER_START_DATE; PREMIUM_REFUND_AMOUNT; TOTAL_REFUND_AMOUNT (for WP and MDO);

Name	Frequency & Criteria	Tables	Description
	DATE) for each Policy		GRAND_TOTAL_OF_REFUND (WP + MDO). Input parameters include: FROM_DATE; TO_DATE.
Policy Data Form DB_RPT38	Frequency: unspecified; Criteria: CSV_TRANS_ TYPE = "s"; COVERAGE_ SEQUENCE = 1; REVERSAL_ ENTRY_ DATE is null	DB_ POLICY; POLICY_ LOAN; POLICY_ CSV_ TRANS- ACTION; POLICY_ COVER- AGE;	This Report displays CSV details for a selected input policy. Detailed information presented in this report includes: POLICY_NUMBER; NAME_OF_INSURED; EFFECTIVE_DATE; AGE_AT_ISSUE; DATE_OF_ISSUE; TYPE_OF_INSURANCE; DURATION; POLICY_AMOUNT; YEAR_OF_CHANGE; INTEREST_PAID_TO_YEAR; OUTSTANDING_LOAN; INTEREST_RATE; INTEREST_DEDUCTION; GROSS_VALUE; NET_VALUE. Input parameters include: POLICY_NUMBER.
Policy Number Order List DB_RPT62	Frequency: on request. Criteria: POLICY_ STATUS IN ("PDUP," "PPAY," "WAIV"); COVERAGE_ SEQUENCE = 1	DB_ POLICY; POLICY LOAN; POLICY_ STATUS; POLICY_ COVER- AGE; POLICY_ LOAN TRANS- ACTION	POLICY NUMBER: Detailed information presented in this report includes: POLICY NUMBER; ISSUE_DATE; STATUS; PLAN; AGE; AMOUNT; RATE; YEAR; LOAN; NAME_OF_THE_INSURED; TOTAL_FOR_THE_LOAN (WP AND MDO DEBIT TYPES). Input parameters include: none
Policy Status Change Report DB_RPT04	Frequency: not defined. Criteria: none	DB_ POLICY; POLICY MODAL_ PREMIUM; POLICY STATUS; POLICY COVER- AGE; POLICY LOAN TRANS- ACTION	This report displays the policies (along with their respective statuses) for a specified input date range. Old and new status may also be displayed for the policies. This report can also display the policies having old and new status, as determined by the input parameters. Detailed information presented in this report includes: POLICY_NUMBER; OLD_STATUS; NEW_STATUS; START_DATE; DATE LAST_PAID; CURRENT_PREMIUM_AMOUNT; LAST_DATE, RECEIVED; DEATH_CLAIM_INFO_SEND. Input parameters include: FROM_DATE; NEW_DATE; OLD_STATUS; NEW_STATUS.
Policy Status Change Report (Having Loans) DB_RPT50	Frequency: on request. Criteria: not defined.	DB_ POLICY; POLICY_ MODAL_ PREMIUM; POLICY_ STATUS; POLICY_	This report displays the policies (having loan transactions) along with the status (old and new status) for a given input date range. It can also display the policies having old and new status, as determined by the input parameters. Detailed information presented in this report includes: POLICY_NUMBER; OLD_STATUS; NEW_STATUS;

Name	Frequency & Criteria	Tables	Description
	3.10.00	LOAN_ TRANS- ACTION	START_DATE; DATE_LAST_PAID; LOAN_AMOUNT; CURRENT PREMIUM_AMOUNT. INPUT PARAMETERS INCLUDE: FROM_DATE; NEW_DATE; OLD_STATUS; NEW STATUS.
Premium Entered On a Given Day DB_RPT03	Frequency: on request: Criteria: DEBIT_ TRAN_ TYPE IN "PAYPRM," "PARTIAL"; PAYMENT_ APPLIED_FL AG is "Y"	BILLING_ ACCOUNT_ TRANS	This reports provides information regarding premiums entered on a given day. Detailed information in this report includes: ACCOUNT_NUMBER; TRANSACTION_TYPE; AMOUNT_RECEIVED; PREMIUM_PAYMENT; PARTIAL_PAYMENT; PARTIAL_PAYMENT; PARTIAL_DATE; TO_DATE, Input parameters include: FROM_DATE; TO_DATE; USER-ENTERED/TOTAL.
Premium Refund Report DB_RPT02	Frequency: on request. Criteria: CSV_TRANS_ TYPE = "S"	POLICY_ STATUS; POLICY_ CSV_ TRANS- ACTION	This reports displays the details of the reversal or extended cash surrender transactions for WP and MDO debit modes. Detailed information presented in this report includes: POLICY NUMBER; EFF_DATE; STATUS; PRIOR_EFF DATE; PRIOR_STATUS; EXTENDED_TERM_PERIOD; CSV_AMOUNT. Input parameters include: FROM_DATE; TO DATE.
Reversal of Cash Surrender DB_RPT42	Frequency: on request. CSV_TRANS_ TYPE = "S"	POLICY_ STATUS; POLICY_ CSV_ TRANS- ACTION	This report displays the details of the cash surrender transactions for WP and MDO debit modes. Detailed information presented in this report includes: POLICY_NUMBER; EFFECTIVE_DATE; STATUS; PRIOR_EFFECTIVE_DATE; PRIOR_STATUS; EXTENDED_TERM_PERIOD; CSV_AMOUNT. Input parameters include: FROM_DATE; TO_DATE.
Reversal of Extended Value DB_RPT34	Frequency: on request. Criteria: CSV_TRANS_ TYPE IN ("E,"	POLICY _STATUS; POLICY_ CSV_ TRANS- ACTION	This report displays the details of the reversal or extended cash surrender transaction operation. Detailed information presented in this report includes: POLICY_NUMBER; EFF_DATE; STATUS; PRIOR_EFF_DATE; STATUS; PRIOR_EFF_DATE; PRIOR_STATUS; EXTENDED_TERM_PERIOD; RPU_AMOUNT. Input parameters include: RPOM_DATE_TO_DATE.
Totals By Month - MDO Loans DB_RPT56	Frequency: on request. Criteria: DEBIT_ MODE = MDO; POLICY_ STATUS IN ("PPAY,"	DB_ POLICY; POLICY_ LOAN; POLICY_ LOAN_ TRANS ACTION; POLICY_	This report displays the interest rate along with corresponding loan total for each month. It also displays the summary of the loan total for all months for each interest rate and the grand total. Detailed information presented in this report includes: MONTH; INTEREST_RATE; LOAN_TOTAL; TOTAL_5%; TOTAL_6%; GRAND_TOTAL. Input parameters include: AS OF DATE.

Name	Frequency & Criteria	Tables	Description
	"WAIV," "PDUP")	STATUS	
Totals By Month - Wp Loans DC_RPT54	Frequency: on request. Criteria: DEBIT_ MODE = WP; POLICY_ STATUS IN ("PPAY," "WAIV," "PDUP")	DB_ POLICY; POLICY_ LOAN; POLICY_ LOAN_ TRANS- ACTION; POLICY_ STATUS	This report displays the interest rate along with corresponding loan amount total for each month. It also displays the loan total summary for each interest rate for all the months and the grand total. Detailed information presented in this report includes: Month; Interest, Rate; Loan, Total; Total 5%; Total 6%; Grand Total. Input parameters include: As_Of_Date.
WP/MDO Inforce Health Policies DB_RPT63	Frequency: on request. Critieria: POLICY_ TYPE = "H" POLICY_ STATUS IN (PPAY,WAIV, PDUP)	POLICY_ STATUS; DEBIT_ CLIENT; DB_ POLICY;	This reports provides a WP/MDO in-force health policies list. Detailed information presented in this report includes: INSURED; POLICY_NUMBER: ISSUE_DATE; DEBIT_MODE; EXPIRY_DATE. Input parameters include: none.
Weekly Life And Health Premium Report DC_RPT51	Frequency: on-request Criteria: undefined.	None	This Report displays the total premiums for the life and health policies for the WP and MDO type of policies. Detailed information presented in this report includes; total premium for life and health policies for WP and MDO types of policies. Input parameters include: FROM DATE, TO DATE.

Table VI: Glossary

interface	In one embodiment, an interface refers to a screen, also known as a "Graphical User Interface" (GUI), that allows a user to access and manipulate data in storage
batch payments	Batch payments refer to payments that are sent by the policyholders to a bank accompanied by a billing "stub" that identifies the billing account to which the payment should be applied. The bank then notifies the insurance company on a daily basis that the payments have been received.
batch processing	Batch processing refers to computer programs executed by operators to carry out large-scale processing against a database. Usually such processing runs at night when users are not online.
benefit	A benefit refers to an amount of money to be made under the policy contract when certain events occur, such as when the insured dies, etc.
billing account	This refers to an account used for billing for premiums for one or more insurance policies. The account includes a payor name and address, a total modal premium (the sum of modal

	premiums of all policies on the account), and a payment next due date associated with a billing account.
cash surrender value	This value pertains to an amount of money at any given time during the life of a policy that the policyowner will receive if he or she cancels the coverage provided by the policy and surrender the policy to the insurance company.
conversion	Conversion refers to the transfer of data from the data storage for an old system to the data storage for a new system, with any manipulations as may be required, so that the data can (from that point forward) be processed by the processing logic of the new system.
coverage (policy coverage)	Coverage refers to the life that is insured by an insurance policy. The "base" coverage of a policy refers to the insurance for the "primary" insured on the policy. There may be secondary insureds, such as a spouse or children.
data storage	A data storage comprises any media for electronically storing data on a computer system. Such computer system may include a server PC, a LAN-based system, tape or disk, mainframe storage mechanism, etc. The data may be structured as a relational database or may adopt some other structure.
death claim	A death claim refers to a request for payment under the terms of an insurance policy upon death of the insured
expire	A policy expires when it terminates without value. A term policy usually expires (terminates without remaining value) when the term of insurance ends.
extended term insurance	This refers to a non-forfeiture option in which the net cash value of a policy is applied as a single net premium to purchase term insurance.
extended values processing	Extended values processing refers to a logical processing performed (computation of cash surrender value, etc.) in order to large a policy to extended term status.
external system	An extended system is a system that exists independently of another system, but the two systems can communicate (exchange data) with each other and perform needed processing on behalf of each other.
holding transaction	A holding transaction is a transaction that records a payment against a particular policy or account but does not "apply" the payment because the payment amount does not match a billed amount and therefore it is not yet known how the payor intended the payment to be applied.
interest (loan)	In one case, interest refers to the annual interest charged to a policy loan.
lapse	Lapse refers to any termination from an "inforce" status to a non-inforce status or from a premium-paying status to a non-premium paying status. For instance, policies which go from premium-paying status to extended term, or any policies that go to surrendered, or death-claim paid status are said to have "lapsed."
loan processing	Loan processing refers to logical processing performed in order to: set up a loan on a policy, charge annual interest, bill for annual interest, record payments against principal or interest, etc.
matching payment	A payment where the dollar amount of the payment matches: (1) a multiple of a billing account's modal premium in the

	case of a premium payment; or (2) the amount of annual interest billed in the case of a loan payment.
mature	A policy is said to mature when it reaches the date on which
	the cash value of the policy equals the face amount of
	insurance paid by the policy.
matured endowment	This refers to an insurance policy where the cash value has
	become equal to the face amount of the insurance paid by the
	policy (and the insured is still living).
maturity claim	A maturity claim is a request for payment under the terms of
	an insurance policy upon the policy having reached maturity.
minimum interest	This refers to a minimum amount that the policyholder must
minimum meresi	pay to keep a policy with a loan in force, because otherwise
	the cash value of the policy will be less than the outstanding
	Ioan amount on the policy.
mirror [of a retired system]	A "mirror" pertains to a storage of data on a new system that
mintor for a retired system;	records the value of all data fields on all policies as they
	existed when an old system was converted to the new system.
modal premium	A modal premium pertains to a minimum premium amount
modai premium	which must be contractually paid on a periodic basis (e.g.,
	either weekly or monthly) to keep the policy in force.
C. C. L si-les	A policyholder has rights to use the built-up or remaining cash
non-forfeiture rights	value of a policy in order to continue to have insurance
	coverage for some length of time after the policyholder elects
	to discontinue paying premiums.
non-matching payment	A non-matching payment is a payment where the dollar
	amount of the payment does not match: (1) a multiple of a
	billing account's modal premium in the case of a premium
	payment; or (2) the amount of annual interest billed in the case
	of a loan payment.
maturity date	The maturity date is the calendar date as of which the cash
	value of an endowment policy will be equal to the policy's
	face value (insurance value).
paid to date	This is the date up to which a policy will remain in force
	based on the premiums paid to date.
paid up date	This is the calendar date as of which all premium payments
	contractually agreed to under the terms of a policy will have
	been made.
policy maintenance	Policy maintenance refers to processing involved in the
	administration of a policy, such as maintaining insured name
	and date of birth, tracking cease dates of coverage and
	benefits, recording policy status as of any given date, etc.
premium billing and payment	This refers to printing and mailing billing statements, and the
processing	applying payments that are received (crediting them to
	particular policies).
premium-paying status	A premium-paying status refers to a status indicating that a
	policy is in force and requires additional premium payments t
	remain in force (the policy is not yet paid up).
premium refund	A premium refund refers to a refund of premium payments to
	the policyholder because for some reason excess payments
	have been received.
principal (loan)	The principal on a loan is the amount of a loan on a policy
	before interest has been added.
reduced paid up insurance	This term refers to a non-forfeiture option wherein the cash
	surrender value is used to buy an amount of paid up insurance
	that will mature on the same date as the maturity date of the

	original policy.
retired system	A retired system refers to a computer-based processing system that is no longer used. In the context used herein, it is the "ancestor" system of the current (new) system. A conversion is carried out in order to transfer data from the retired system to the new system.
rider	A rider is an additional or "secondary" coverage under an insurance policy.
surrender	To surrender a policy means to stop premium payments on a policy and receive a payment of the cash value of the policy.
unearned interest	When a payment is made against loan principal, this is the amount of the annual interest that must be refunded to the policyholder because interest is charged in advance.
waiver processing	Waiver processing refers to processing that must be carried out when insurance premiums are waived because the insured has become disabled and the policy carried a disability rider. After a policy has gone into premium-waiver status, the premiums are in essence paid by the insurance company. If the insured does not remain disabled indefinitely, the policy may resume premium-paying status.
waiver status (WAIV)	Such a status indicates that premiums are no longer being paid by the policyholder because of a disability. The policy remains in force with the insurance company paying the premiums.

Other modifications and variations to the embodiments described above can be made without departing from the spirit and scope of the invention, as is intended to be encompassed by the following claims and their legal equivalents.